

ski-doo®



Operator's Guide

*Includes
Safety, Vehicle
and Maintenance
Information*



2 0 0 6
RT™ Series

WARNING

Read this guide thoroughly. It contains important safety information.

Minimum recommended operator's age: 16 years old. Do not remove this Operator's Guide from the vehicle.

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SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide*, *Safety Videocassette* or on-product warnings may result in injury, including the possibility of death.

This *Operator's Guide* and *Safety Videocassette* should remain with the unit at time of resale.



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FOREWORD

Congratulations on your purchase of a new SKI-DOO snowmobile. Whatever model you have chosen, it is backed by the Bombardier Recreational Products Inc. (BRP) warranty and a network of authorized SKI-DOO snowmobile dealers ready to provide the parts, service or accessories you may require.

The Operator's Guide has been prepared to acquaint the owner/operator and passenger with this new snowmobile and its various controls, maintenance and safe riding instructions. This guide is indispensable for the proper use of the product and should be kept with this snowmobile at all times.

Make sure you read and understand the content of this Operator's Guide.

After reading, please keep this Operator's Guide with the snowmobile. If the snowmobile is resold, please give the guide to the new owner for his awareness. An extra copy of the Operator's Guide is available from your SKI-DOO snowmobile dealer at no charge.

If you have any question regarding any topic whether or not it is covered in this Operator's Guide, please call BRP at the number below and we will be happy to assist you:

In USA:
(715) 848-4957


In Canada:
(819) 566-3366

This guide uses the following safety alert symbol in conjunction with signal words to indicate a potential personal injury hazard.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. When used without the safety alert symbol , potential hazard exists for property damage only.

NOTE: Indicates supplementary information needed to fully complete an instruction.

Although the mere reading of such information does not eliminate the hazard, the understanding and application of the information will promote the correct use of the vehicle.

Your dealer is committed to your satisfaction. He has taken training to perform the initial set-up and inspection of your snowmobile as well as completed the final adjustment required to suit your specific weight and riding environment before you took possession. At delivery, your dealer would have explained the snowmobile controls and provided you with a brief explanation of the various suspension adjustments. We trust you have taken full advantage of this!

At delivery, you were also informed of the warranty coverage and have completed the Warranty Registration process.

The information and components/system descriptions contained in this guide are correct at time of publication. BRP, however maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Because of its ongoing commitment to product quality and innovation, BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations in this document show the typical construction of the different assemblies and, in all cases, may not reproduce the full detail or exact shape of the parts shown, however, they represent parts which have the same or a similar function.

It is understood that this guide may be translated into another language. In the event of any discrepancy, the English version shall prevail.

Specifications are given in the SI metric system with the SAE U.S. equivalent in parentheses. Where precise accuracy is not required, some conversions are rounded off for easier use.

Most components of this snowmobile are built with parts dimensioned in the metric system. Most fasteners are metric and must not be replaced by customary fasteners or vice versa.

We recommend genuine BRP products for replacement parts and accessories. They've been specially designed for your vehicle and manufactured to meet BRP's demanding standards.

A *SHOP MANUAL* can be obtained for complete service, maintenance and more repair information.

For any questions pertaining to the warranty and its application, consult the *WARRANTY* section in this guide, and/or an authorized SKI-DOO dealer.

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SAFETY INFORMATION

INTRODUCTION

Everyone is a beginner the first time he sits behind the controls of a snowmobile regardless of previous experience in driving an automobile, a motorcycle or a motorboat. The safe use of your snowmobile is dependent on many conditions such as visibility, speed, weather, environment, traffic, vehicle condition and the condition of the driver.

Each operator has a responsibility to ensure the safety of his/her passenger, if any, and of other recreationists or bystanders.

You are responsible for proper operation of your vehicle as well as training those whom you allow to ride or drive. There may be noticeable handling and performance differences from one snowmobile to the other.

A snowmobile is relatively simple to operate but like any other vehicle or mechanical equipment, it can be hazardous if you or a passenger are reckless, thoughtless or inattentive. We encourage you to have an Annual Safety Inspection of your snowmobile. Please contact an authorized SKI-DOO dealer for further details. Finally, we urge you to visit an authorized SKI-DOO dealer periodically for regular and safety maintenance, as well as snowmobile accessories you may require.

IMPORTANT BASIC SAFETY MEASURES

Training

- △ Basic training is required for the safe operation of any snowmobile. Study your Operator's Guide paying particular attention to cautions and warnings. Join your local snowmobile club: its social activities and trail systems are planned for both fun and safety. Obtain basic instructions from your snowmobile dealer, friend, fellow club member or enroll in your state or provincial safety training program.
- △ Always show a new operator how to start and stop the vehicle. Indicate the correct riding positions and, above all else, only allow him to operate the snowmobile in a restricted flat area — at least until he is completely familiar with its operation. If there is a local snowmobile operator's training course existing, have him enroll.

Performance

- △ The performance of some snowmobiles may significantly exceed that of other snowmobiles you have operated. Therefore, use by novice or inexperienced operators is not recommended.
- △ Snowmobiles are used in many areas and in many snow conditions. Not all models perform the same in similar conditions. Always consult your snowmobile dealer when selecting the snowmobile model for your particular needs and uses.
- △ Injury or death may result to the snowmobile operator, passenger or bystander if the snowmobile is used in risky conditions which are beyond the driver's, passenger's or snowmobile's capabilities or intended use.

Age

- △ BRP recommends the operator has at least 16 years old of age.

Speed

- △ Speeding can be fatal. In many cases, you cannot react or respond quickly enough to the unexpected. Always ride at a speed which is suitable to the trail, weather conditions and your own ability. Know your local rules. Speed limit may be in effect and meant to be observed.

Riding

- △ Always keep right hand side of the trail.
- △ Always keep a safe distance from other snowmobiles and bystanders.
- △ Remember, promotional material may show risky maneuvers performed by professional riders under ideal and/or controlled conditions. You should never attempt any such risky maneuvers if they are beyond your level of riding ability.
- △ Never ride after consuming drugs or alcohol or if you feel tired or ill. Operate your snowmobile prudently.
- △ Your snowmobile is not designed to be operated on public streets, roads or highways.
- △ Snowmobiling at night can be a delightful experience but because of reduced visibility, be extra cautious. Avoid unfamiliar terrain and be sure your lights are working. Always carry a flashlight and spare light bulbs.
- △ Nature is wonderful but don't let it distract your attention from driving. If you want to truly appreciate winter's scenery, stop your snowmobile on the side of the trail so that **you** don't become a hazard to others.
- △ Fences represent a very serious threat for both you and your snowmobile. Give a wide berth to telephone poles or posts.
- △ Hidden wires unseen from a distance can cause serious accidents.
- △ Always wear an approved safety helmet, eye protection and a face shield. This also applies to your passenger.
- △ Be aware of inherent risks associated with riding off trails, such as avalanche and other natural or man made hazards or obstacles.
- △ Avoid road traveling. If you must do so, and it is permitted, reduce speed. The snowmobile is not designed to operate or turn on paving. When crossing a road, make a full stop, then look carefully in both directions before crossing at a 90° angle. Be wary of parked vehicles.
- △ Tailgating another snowmobile should be avoided. If the snowmobile in front of you slows for any reason, its driver and passenger could be harmed through your neglect. Maintain a safe stopping distance between you and the snowmobile in front of you. Depending on the terrain condition, stopping may require a little more space than you think. Play it safe. Be prepared to use evasive driving.

- ⚠ Venturing out alone with your snowmobile could also be hazardous. You could run out of fuel, have an accident, or damage your snowmobile. Remember, your snowmobile is capable of traveling further in half an hour than you may be able to walk in a day. Use the "buddy system". Always ride with a friend or member of your snowmobile club. Even then, tell someone where you are going and the approximate time you plan to return.
- ⚠ Meadows sometimes have low areas where water accumulate and freezes over in winter. This ice is usually glare ice. Attempting to turn or brake on this surface could cause your vehicle to spin out of control. Never brake or attempt speeding or turning on glare ice. If you do happen to travel over such a condition, reduce speed by carefully releasing the throttle.
- ⚠ Never "jump" with your snowmobile. This should be left to professional stunt men. Don't show off. Be responsible.
- ⚠ While on safari, do not "gun" the throttle. Snow and ice can be thrown back into the path of a following snowmobile. In addition, when "gunning" the throttle, the vehicle digs into and leaves an irregular snow surface for others.
- ⚠ Safaris are both fun and enjoyable but don't show off or overtake others in the group. A less experienced operator might try to do the same as you and fail. When riding with others, limit your abilities to the experience of others.

Operation

- ⚠ Always make a pre-start inspection BEFORE you turn on the ignition.
- ⚠ In an emergency, the snowmobile engine can be stopped by activating the engine cut-out switch, pulling the tether cord cap or turning off the key.
- ⚠ Throttle mechanism should be checked for free movement and return to idle position before starting engine.
- ⚠ Always engage parking brake when vehicle is not in use.
- ⚠ Never run the engine in a non-ventilated area and/or if vehicle is left unattended.
- ⚠ Never operate the engine without belt guard securely installed or, with hood or access/side panels open or removed. Never run the engine without drive belt installed. Running an unloaded engine such as without drive belt or with track raised, can be dangerous.
- ⚠ **Electric start models only:** Never charge or boost a battery while installed on snowmobile.

- ⚠ Ensure the path behind is clear of obstacles or bystanders before proceeding in reverse.
- ⚠ Do not leave your keys in the ignition switch, it is an invitation to thieves and a danger to young children.
- ⚠ Raising the rear of your snowmobile while the engine is running could cause snow, ice or debris to be thrown back at an observer. Never raise the rear of the vehicle while the engine is running. To clear or inspect the track, stop the engine, tilt the vehicle on its side and remove blockage with a piece of wood or branch. Never allow anyone near a rotating snowmobile track.

Maintenance

- ⚠ Know your snowmobile and treat it with the respect and care due of any power driven machine. Common sense, proper handling and routine maintenance will result in safer and enjoyable use.
- ⚠ Only perform procedures as detailed in this guide. Unless otherwise specified, engine should be turned OFF and cold for all lubrication, adjustment and maintenance procedures.
- ⚠ Never have the engine running while the hood is open. Even at idle, a snowmobile engine is turning around 1,800 revolutions per minute. Always turn off the ignition before opening the hood for any reason.
- ⚠ Never remove any original equipment from your snowmobile. Each vehicle has many built in safety features. Such features include various guards and consoles, plus reflective materials and warning labels.
- ⚠ A poorly maintained snowmobile itself can be a potential hazard. Excessively worn components could render the vehicle completely inoperative. Keep the snowmobile in good working condition at all times. Follow your pre-operation check, weekly, monthly and annually routine maintenance and lubrication procedures as detailed in this guide. Consult a snowmobile dealer or acquire a shop manual and proper tools and equipment if other repairs or service is required.
- ⚠ Do not stud the track unless it as been approved for studs. At speed, a studded track that as not been approved for studs could tear and separate from vehicle posing a risk of severe injury or death.

Fuel

⚠ Always stop the engine before refueling. Fuel is flammable and explosive under certain conditions. Always work in a well-ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Do not overfill or top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the vehicle. Periodically verify fuel system.

Basics for Passenger

- ⚠ Never ride as a passenger unless the snowmobile is equipped with a passenger seat, and sit only on the designated passenger seat.
- ⚠ Always wear a DOT approved helmet and follow the same dressing guidelines as those recommended for the operator and described in this guide.
- ⚠ Make sure that you are able to achieve a stable stance, both feet resting positively on the footboards of footrests with good grip, and that you are able to hold on firmly to the handholds.
- ⚠ Once underway, if you feel uncomfortable or insecure for any reason, don't wait, tell the driver to slow down or stop.

LAWS AND REGULATIONS

⚠ Know your local laws.

Federal, state, provincial and local government agencies have enacted laws and regulations pertaining to the safe use and operation of snowmobiles. It is your responsibility as a snowmobiler to learn and obey these laws and regulations. Respect and observance will result in safer snowmobiling for all.

Be aware of the liability property damages and insurance laws regarding your equipment.

RIDING THE VEHICLE

Before venturing on the trails, operate the snowmobile in a restricted flat area until you are completely familiar with its operation and feel comfortable that you can safely tackle a more demanding task. Have an enjoyable and safe ride.

Principle of Operation

Propulsion

Depressing throttle lever increases engine RPM causing the drive pulley to engage. Depending on models, engine RPM must be between 2500 and 4200 before drive pulley engagement will occur.

Outer sheave of drive pulley moves toward inner sheave, forcing the drive belt to move upward on the drive pulley and simultaneously forcing the sheaves apart on the driven pulley.

The driven pulley senses the load on the track and limits the belt movement. The result is an optimized speed ratio between engine RPM and the speed of the vehicle at any time.

WARNING

Never operate engine without belt guard securely installed or, with hood or access/side panels open or removed.

Power is transferred to the track through the chaincase or gearbox and drive axle.

WARNING

Always use a wide-base snowmobile mechanical stand to properly support vehicle during any track verification. Slowly accelerate engine in order to rotate track at very low speed when it is not on ground.

Turning

Handlebar controls the steering of the vehicle. As the handlebar is rotated to right or left, the skis are turned right or left to steer the snowmobile.

Stopping

Before riding your snowmobile, you should understand how to stop it. This is done by releasing the throttle and gradually depressing the brake lever on the left side of the handlebar. In an emergency, you may stop your vehicle by pressing the engine cut-out switch located near the throttle control and applying the brake. Remember, a snowmobile cannot "stop on a dime". Braking characteristics vary with deep snow, packed snow or ice. If the track is locked during hard braking, skidding may result.

How to Ride

How to Dress

Proper snowmobile clothing should be worn. It should be comfortable and not too tight. Always check the weather forecast before going on a ride. Dress for the coldest weather expected. Thermal underwear next to the skin also provides a good insulation.

DOT approved helmets are recommended at all times. They provide both warmth and reduce injury. A stocking type cap, balaclava and face mask should always be carried or worn. Goggles or a face shield that attach to the helmet are indispensable.

Hands should be protected by a pair of snowmobile gloves or mitts which have sufficient insulation and allow use of thumbs and fingers for operation of controls.

Rubber bottom boots with either a nylon or a leather top, with removable felt liners are best suited for snowmobiling.

You should keep yourself as dry as possible when snowmobiling. When you come indoors, take your snowmobile suit and boots off and make certain they dry properly.

Do not wear long scarfs and loose apparels that could get caught in moving parts.

What to Bring

Every snowmobiler should carry at least the following basic parts and tools that can help him and others in an emergency:

- this Operator's Guide
- spare spark plugs and wrench
- friction tape
- spare drive belt
- spare starter rope
- spare light bulbs

- tool kit (including at least pliers, screwdriver, adjustable wrench)
- knife
- flashlight.

Include other items depending on the length and time of your ride.

Riding Position

Your riding position and balance are the two basic principles of making your snowmobile go where you want it to. When turning on the side of a hill, you and your passenger must be ready to shift body weight to help it turn in the desired direction. Driver and passenger(s) must never attempt this maneuvering by placing feet outside of the vehicle. Experience will teach you how much lean to put into turns at different speeds and how much you will have to lean into a slope to maintain proper balance.

Generally, the riding position for best balance and control is sitting. However, the posting, kneeling or standing positions are also used under certain conditions.

The novice driver should become familiar with the snowmobile through practice on a level area at slow speeds before venturing afield.

WARNING

Do not attempt any maneuvers if they are beyond your abilities.

Sitting

Feet on the running boards, body midway back on seat is an ideal position when operating the snowmobile over familiar, smooth terrain. Knees and hips should remain flexible to absorb shocks.



Posting

A semi-sitting position with the body off the seat and the feet under the body in a sort of squatting posture, thus allowing the legs to absorb the shocks when traveling over uneven terrain. Avoid abrupt stops.



Kneeling

This position is achieved by placing one foot firmly on the running board and the opposite knee on the seat. Avoid abrupt stops.



Standing

Place both feet on the running boards. Knees should be flexed to absorb the shock from surface bumps. This is an effective position to see better and to shift weight as conditions dictate. Avoid abrupt stop.



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Carrying a Passenger

Certain snowmobiles are designed for an operator only, others can allow one passenger only, and others can allow up to two passengers. Refer to the indications on the vehicles to know if any particular snowmobile can accommodate passengers or not, and if so, how many. Always respect those indications. Overloading is dangerous because snowmobiles are not designed for it.

Even when passengers are allowed, you must make sure that the persons who would like to become passengers are physically fit for snowmobiling.

WARNING

Any passenger must be able to firmly lay his feet on the footrests and keep his hands on the grab handles or seat strap at all times when seated. Respecting those physical criteria is important to ensure that the passenger is stable and to reduce the risks of ejection.

On snowmobiles allowing two passengers, if you have an adult and a child for passenger, BRP recommends that the child sits in the center location. This allows an adult sitting in the rear seat to keep a visual contact with the child and hold him if necessary. In addition, the child is best protected against the wind and cold temperature if seated in the center location.

Each operator has a responsibility to ensure the safety of his passengers and should inform them of snowmobiling basics.

WARNING

- Passengers must only sit on designated passenger seats. Never allow anyone to sit between the handlebar and the operator.
- Each passenger seat must have a strap or grab handles and meet SSCC standards.
- Passengers and operators must always wear DOT approved helmets and warm clothing appropriate for snowmobiling. Make sure that no skin is exposed.
- Once underway, if a passenger feels uncomfortable or unsecure for any reason, he must not wait, and tell the driver to slowdown or stop.

Riding with passengers on board is different than riding alone. The operator has the benefit of knowing what will be the next maneuver and is able to prepare himself accordingly. The operator also benefits from the support of his grip on the handlebar. In contrast, the passengers have to rely on the operator's careful and safe operation of the vehicle. In addition, "body english" is limited with passengers, and the operator can sometimes see more of the trail ahead than the passengers. Therefore, smooth starting and stopping are required with passengers, and the operator must slow down. The operator must also warn passengers of side hills, bumps, branches, etc. An unforeseen bump can leave you passenger-less. Remind your passengers to lean into the turn with you, without causing the vehicle to topple. Be extremely careful, go more slowly and check the passengers frequently.

WARNING

When riding with a passenger:

- Braking ability and steering control are reduced. Decrease speed and allow extra space to maneuver.
- Adjust suspension according to weight.

For complete information on how to adjust the suspension, please refer to the section of this Operator's Guide entitled *SUSPENSION ADJUSTMENTS* under *OPERATING INSTRUCTIONS* and to the relevant label on the belt guard.

Use extra caution and go even more slowly with young passengers. Check frequently to make certain the child has a firm grip and is properly positioned with his feet on the running boards.

Terrain/Riding Variations

Groomed Trail

On a maintained trail, sitting is the most preferred riding position. Do not race and, above all, keep to the right hand side of the trail. Be prepared for the unexpected. Observe all trail signs. Do not zigzag from one side of the trail to the other.

Ungroomed Trail

Unless there has been a fresh snowfall you can expect "washboard" and snowdrift conditions. Taken at excessive speeds, such conditions can be physically harmful. Slow down. Hold on the handlebar and assume a posting position. Feet should be under the body assuming a crouched position to absorb any jarring effect. On longer stretches of "washboard" trails, the kneeling position of one knee on the seat can be adopted. This provides a certain amount of comfort, while at the same time keeps the body loose and capable of vehicle control. Beware of hidden rocks or tree stumps partially hidden by a recent snowfall.

Deep Snow

In deep "powder" snow, your vehicle could begin to "bog" down. If this occurs, turn in as wide an arc as possible and look for a firmer base. If you do get "bogged", and it happens to everyone, do not spin your track as this makes the vehicle sink deeper. Instead, turn the engine off, get off and move the back of the vehicle onto new snow. Then tramp a clear path ahead of the vehicle. A few feet will generally suffice. Restart the engine. Assume the standing position and rock the vehicle gently as you steadily and slowly apply the throttle. Depending on whether the front or rear end of the vehicle is sinking, your feet should be placed on the opposing end of the running boards. Never place foreign material beneath the track for support. Do not allow anyone to stand in front of, or to the rear of, the snowmobile with the engine running. Stay away from the track. Personal injury will result if contact is made with the revolving track.

Frozen Water

Traveling frozen lakes and rivers can be fatal. Avoid waterways. If you are in an unfamiliar area, ask the local authorities or residents about the ice condition, inlets, outlets, springs, fast moving currents or other hazards. Never attempt to operate your snowmobile on ice that may be too weak to support you and the vehicle. Operating a snowmobile on ice or icy surfaces can be very dangerous if you do not observe certain precautions. The very nature of ice is foreign to good control of a snowmobile or any vehicle. Traction for starting, turning or stopping is much less than that on snow. Thus, these distances can be multiplied manyfold. Steering is minimal, and uncontrolled spins are an ever present danger. When operating on ice, drive slowly with caution. Allow yourself plenty of room for stopping and turning. This is especially true at night.

Hard Packed Snow

Don't underestimate hard packed snow. It can be difficult to negotiate as both skis and track do not have as much traction. Best advice is to slow down and avoid rapid acceleration, turning or braking.

Uphill

There are two types of hills you can encounter — the open hill on which there are few trees, cliffs or other obstacles, and a hill that can only be climbed directly. On an open hill, the approach is to climb it by side hilling or slaloming. Approach at an angle. Adopt a kneeling position. Keep your weight on the uphill side at all times. Maintain a steady, safe speed. Continue as far as you can in this direction, then switch to an opposite hill angle and riding position.

A direct climb could present problems. Choose the standing position, accelerate before you start the climb and then reduce throttle pressure to prevent track slippage.

In either case, vehicle speed should be as fast as the incline demands. Always slow down as you reach the crest. If you cannot proceed further, don't spin your track. Turn the engine off, free the skis by pulling them out and downhill, place the rear of the snowmobile uphill restart the engine and ease it out with slow even throttle pressure. Position yourself to avoid tipping over, then descend.

Downhill

Downhill driving requires that you have full control of your vehicle at all times. On steeper hills, keep your center of gravity low and both hands on the handlebar. Maintain slight throttle pressure and allow the machine to run downhill with the engine operating. If a higher than safe speed is reached, slow down by braking but apply the brake with frequent light pressure. Never jam the brake and lock the track.

Side Hill

When crossing a side hill or traversing up or downhill, certain procedures must be followed. All riders should lean towards the slope as required for stability. The preferred operating positions are the kneeling position, with the knee of the down hill leg on the seat and the foot of the uphill leg on the running board, or the posting position. Be prepared to shift your weight quickly as needed. Side hills and steep slopes are not recommended for a beginner or a novice snowmobiler.

Slush

Slush should be avoided at all times. Always check for slush before starting across any lake or river. If dark spots appear in your tracks, get off the ice immediately. Ice and water can be thrown rearward into the path of a following snowmobile. Getting a vehicle out of a slush area is strenuous and in some cases, impossible.

Fog or Whiteouts

On land or water, fog or visibility-limiting snow can form. If you have to proceed into the fog or heavy snow, do so slowly with your lights on and watch intently for hazards. If you are not sure of your way, do not proceed. Keep a safe distance behind other snowmobilers to improve visibility and reaction time.

Unfamiliar Territory

Whenever you enter an area that is new to you, drive with extreme caution. Go slow enough to recognize potential hazards such as fences or fence posts, brooks crossing your path, rocks, sudden dips, guy wires and countless other obstacles which could result in a termination of your snowmobile ride. Even when following existing tracks, be cautious. Travel at a speed so you can see what is around the next bend or over the top of the hill.

Bright Sunshine

Bright sunny days can considerably reduce your vision. The glare from sun and snow may blind you to the extent that you cannot easily distinguish ravines, ditches or other obstacles. Goggles with colored lenses should always be worn under these conditions.

Unseen Obstruction

There may be obstructions hidden beneath the snow. Driving off established trails and in the woods requires reduced speed and increased vigilance. Driving too fast in an area can make even minor obstacles very hazardous. Even hitting a small rock or stump could throw your snowmobile out of control and cause injury to its riders. Stay on established trails to reduce your exposure to hazards. Be safe, slow down and enjoy the scenery.

Hidden Wires

Always be on the lookout for hidden wires, especially in areas that may have been farmed at one time or another. Too many accidents have been caused by running into wires in the fields, guy wires next to poles and roads, and into chains and wires used as road closures. Slow speeds are a must.

Obstacles and Jumping

Unplanned jumps of snowdrifts, snowplow ridges, culverts or indistinguishable objects can be dangerous. You can avoid them by wearing the proper color lenses or face shields and by operating at a lower speed.

Jumping a snowmobile is an unsafe and dangerous practice. However, if the trail does suddenly drop away from you, crouch (stand) towards the rear of the vehicle and keep the skis up and straight ahead. Apply partial throttle and brace yourself for the impact. Knees must be flexed to act as shock absorbers.

Turning

Depending on terrain conditions, there are two preferred ways to turn or corner a snowmobile. For most snow surfaces, "body english" is the key to turning. Leaning towards the inside of the turn and positioning body weight on the inside foot will create a "banking" condition beneath the track. By adopting this position and positioning yourself as far forward as possible, weight will be transferred to the inside ski.

On occasion, you will find that the only way to turn the vehicle about in deep snow is to pull the snowmobile around. Do not over-exert yourself. Get assistance. Remember to always lift using your legs as opposed to your back.



Road Crossing

In some cases, you will be approaching the road from a ditch or snowbank. Choose a place where you know you can climb without difficulty. Use the standing position and proceed with only as much speed needed to crest the bank. Stop completely at the top of the bank and wait for all traffic to clear. Judge the drop to the roadway. Cross the road at a 90° angle. If you encounter another snowbank on the opposite side, position your feet near the rear of the vehicle. Remember, your snowmobile is not designed to operate on bare pavement and steering on this type of surface is more difficult.

Railroad Crossing

Never ride on railroad tracks. It is illegal. Railroad tracks and railroad rights-of-way are private property. A snowmobile is no match for a train. When crossing a railroad track, stop, look and listen.

Night Rides

The amount of natural and artificial light at a given time can effect your ability to see or to be seen. Nighttime snowmobiling is delightful. It can be a unique experience if you acknowledge your reduced visibility. Before you start, make certain your lights are clean and work properly. Drive at speeds that will allow you to stop in time when you see an unknown or dangerous object ahead. Stay on established trails and never operate in unfamiliar territory. Avoid rivers and lakes. Guy wires, barbed wire fences, cabled road entrances and other objects such as tree limbs are difficult to see at night. Never drive alone. Always carry a flashlight. Keep away from residential areas and respect the right of others to sleep.

Safari Riding

Before starting out, designate a "trail boss" to lead the party and another person to follow-up at the end of the party. Ensure that all members of the party are aware of the proposed route and destination. Make certain that you are carrying all necessary tools and equipment and that you have sufficient fuel to complete the trip. Never overtake the trail boss or, for that matter, any other snowmobile. Use down-the-line hand signals to indicate hazards or intent of direction change. Assist others whenever necessary.

It is always IMPORTANT to keep a safe distance between each snowmobile. Always maintain a safe interval and allow sufficient stopping distance. Don't be a tailgater. Know the position of the machine ahead.

Signals

If you intend to stop, raise either hand straight above your head. A left turn is indicated by extending your left hand straight out in the proper direction. For right turns, extend the left arm and raise the hand to a vertical position so it forms a right angle at the elbow. Every snowmobiler should relay any signal to the ones behind.

Trail Stops

Whenever possible, pull off the trail when you stop. This will reduce the hazard to other snowmobilers using the trail.

Trails and Signs

Trail signs are used to control, direct or regulate the use of snowmobiles on trails. Become familiar with all signs used in the area where you are snowmobiling.

Transporting and Towing

Follow transporting and towing instructions explained further in this guide.

TRACTION ENHANCING PRODUCTS

NOTE: This section is applicable only to snowmobiles equipped with a track that has been approved for studs.

Using more positive carbide ski runners and traction enhancing products on your snowmobile will change its behavior, particularly in terms of manoeuvrability, acceleration, and braking.

Studding the track gives a better grip on packed snow and ice, but has no noticeable effect on soft snow. For this reason, driving a snowmobile equipped with traction enhancing products (studs, carbide ski runners) requires a certain adaptation period. If your snowmobile is equipped with traction products, be sure to take plenty of time to get used to the way it handles when turning, accelerating, and braking.

Also, always check local regulations concerning the use of studs on snowmobiles. Always drive your snowmobile in a responsible manner, respecting the environment and other people's property.

Manoeuvrability

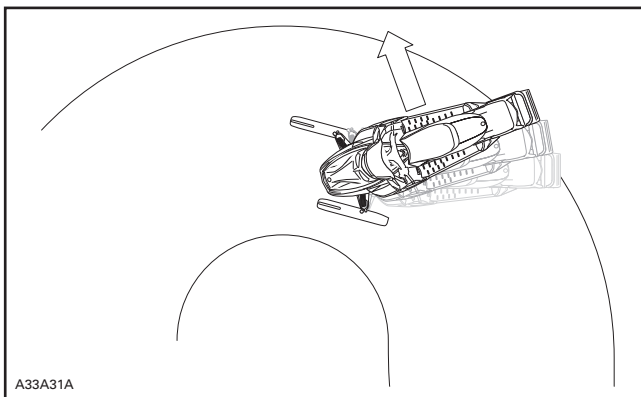
Studding the track makes the snowmobile grip the ground better at the rear. The use of carbide runners is therefore required to give the skis a better grip, so that the front and rear of the snowmobile are in balance. While off-the-shelf carbide ski runners are adequate, they don't necessarily give you optimal control, since that depends on your personal preferences, your riding style, and how your suspension is set.

WARNING

If the front and rear of the snowmobile are out of balance due to an incorrect combination of studs and runners, the snowmobile may tend to oversteer or understeer, which could lead to a loss of control.

1) Oversteering

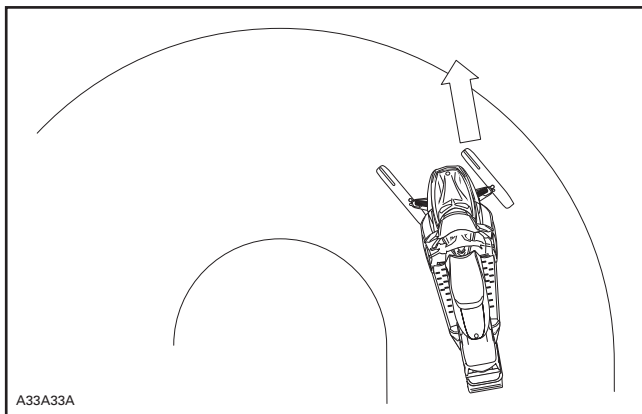
In certain conditions, using more positive carbide ski runners without studding the track could make the snowmobile prone to oversteering, see illustration.



OVERSTEERING

2) Understeering

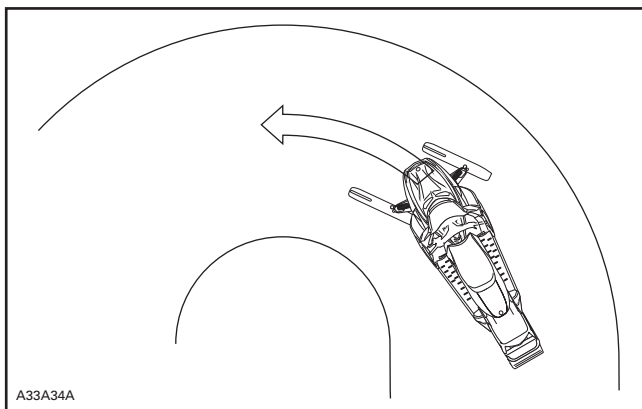
In certain conditions, the use of studs could make the snowmobile prone to understeering if the skis are not equipped with more positive carbide runners, see illustration.



UNDERSTEERING

3) Controlled Driving

A balanced combination of carbide ski runners and studs ensures adequate control and better handling, see illustration.



CONTROLLED DRIVING

Acceleration

Studding the track will allow your sled to accelerate better on packed snow and ice but will have no noticeable effect on soft snow. This can cause sudden variations in traction under certain conditions.

WARNING

To prevent surprises that could lead to a loss of control of the snowmobile, possibly resulting in serious injury or death:

- Always go easy on the throttle.
- NEVER try to spin the track to make the rear of the snowmobile skid.

This could cause debris or ice to be thrown violently backwards, possibly injuring others nearby or on snowmobiles behind you.

Braking

As is the case for acceleration, studding the track will give you better braking capacity on packed snow or ice but will have no noticeable effect on soft snow. Braking may thus vary suddenly under certain conditions. Be sure to use restraint in braking to keep from blocking the track in order to avoid surprises that could lead to a loss of control.

Important Safety Rules

WARNING

To prevent serious injury to individuals near the snowmobile:

- NEVER stand behind or near a moving track.
- Always use a wide-base snowmobile stand with a rear deflector panel.
- When the track is raised off the ground, only run it at the lowest possible speed.

Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury.

Effects of Studding on the Life of the Snowmobile

The use of traction enhancing products can increase the load and the stress on certain snowmobile components, as well as the vibration level. This can cause premature wear on parts such as belts, brake linings, bearings, chain, and chaincase sprocket, and shorten track life. For this reason, it is even more important to follow the detailed maintenance program given in the *MAINTENANCE CHART* reference.

Studs can also cause serious damage to your snowmobile if it is not equipped with the tunnel protectors designed for your particular model. Damage to the electrical wiring or perforation of the heat exchangers are potential hazards, that could cause the engine to overheat and be severely damaged.

WARNING

If tunnel protectors are excessively worn or not installed, the gas tank could be punctured, causing a fire.

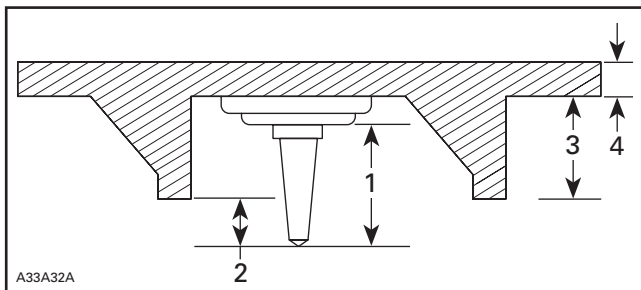
CAUTION: Ask your dealer for the appropriate tunnel protectors model and kit number required for your snowmobile.

NOTE: Consult the BRP limited warranty to find out what warranty limitations are related to the use of studs.

Installation of Studs

To ensure safe and proper installation, BRP recommends to have the studs installed by your dealer.

- Use only studs, mounting plates, and nuts sold by BRP.
- Never use studs that exceed the height of your snowmobile's track profile by more than 9.5 mm (3/8 in).

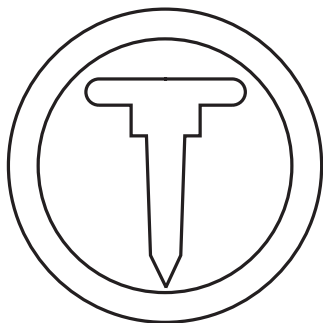


INSTALLATION OF STUDS

1. Stud size
2. Penetration range 6.4 to 9.5 mm (1/4 to 3/8 in)
3. Track lug height
4. Track belt thickness

⚠ WARNING

- Never stud a track that has not been approved for studs. Approved tracks can be identified by a stud symbol (see illustration) molded into the track surface.
 - Studs should only be installed in the locations indicated by molded bulges in the track surface.
 - Never stud a track with a profile of 35 mm (1.375 in) or more.
 - The number of studs installed must always perfectly match the pattern of molded bulges in the track.
 - Always consult the traction product manufacturer's installation instructions and recommendations before having your dealer install studs and runners. It is very important to follow the torque specifications for the stud bolts.
- INSTALLING AN INCORRECT NUMBER OF STUDS OR AN IMPROPER INSTALLATION CAN INCREASE THE RISK OF THE TRACK TEARING OR SEVERING, POSSIBLY RESULTING IN SERIOUS INJURY OR DEATH.**



A33A35A

APPROVED TRACKS CAN BE IDENTIFIED BY THIS SYMBOL

Maintenance/Replacement

PROCEED WITH A VISUAL INSPECTION OF YOUR TRACK BEFORE EACH USE.

Look for any defects, such as:

- perforations in the track
- tears in the track (particularly around traction holes)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber
- broken rods
- broken studs
- bent studs
- studs that are torn off the track
- missing track guide(s).

Replace broken or damaged studs immediately. If your track shows signs of deterioration, it must be replaced immediately. When in doubt, ask your dealer. Always follow the inspections schedule given in the periodic maintenance table.



WARNING

Riding with a damaged track or studs could lead to loss of control, resulting in a risk of serious injury or death.

SAFETY LABELING

Safety standards for snowmobiles have been adopted by the Snowmobile Safety and Certification Committee (SSCC) of which BRP is a proud participating member. Assurance that your snowmobile meets these standards is easily checked by locating the Certification Label on a right vertical portion of the vehicle.

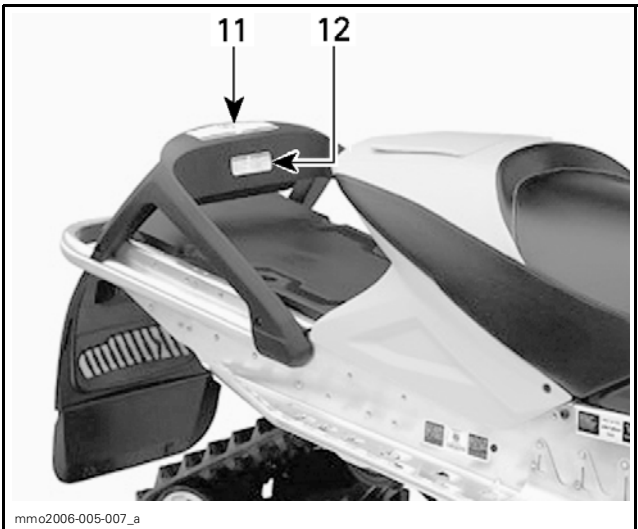
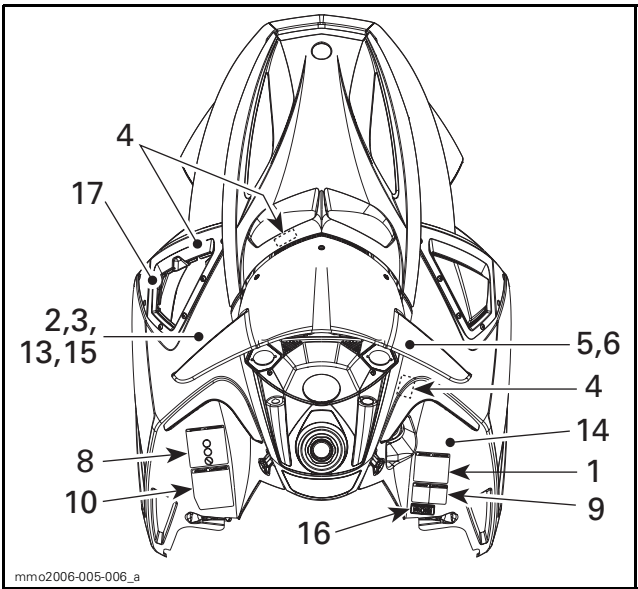
This label shows that an independent testing laboratory has verified compliance with the SSCC safety standards.



Other important labels on the vehicle are WARNING or CAUTION labels relating to safety, maintenance and/or snowmobile operation. Ensure all such labeling is retained on the vehicle and its content is followed by vehicle operator and passenger.

If missing or damaged, the decals can be replaced free of charge. See an authorized SKI-DOO dealer.

Please read the following instructions carefully before operating this snowmobile.



TYPICAL — LOCATION OF IMPORTANT INSTRUCTIONS

Instruction 1

⚠ WARNING

BEFORE STARTING :

1. **Attach tether cord** to your clothing.
2. **Check proper operation of the throttle and brake levers** each time before starting. They must return to their initial position when released.
3. **Apply parking brake.**
4. **Turn handlebars all the way in both directions** to check for interference and insure free operation.

AFTER STARTING :

1. **Pull-out tether cord** to check if engine shuts off.
2. **Re-start and push in engine cut-off switch** to check if engine shuts off.
3. **Disengage parking brake** before riding to avoid fading.

⚠ AVERTISSEMENT

AVANT DE DÉMARRER :

1. **Attachez le cordon coupe-circuit** à votre vêtement.
2. **Vérifiez le bon fonctionnement des manettes d'accélérateur et de frein** avant chaque démarrage. Elles doivent revenir à leur position initiale lorsque relâchées.
3. **Engagez le frein de stationnement.**
4. **Tourner le guidon au maximum de chaque côté** pour vérifier les interférences et le libre fonctionnement.

APRÈS LE DÉMARRAGE :

1. **Déconnectez le cordon coupe-circuit** pour vérifier qu'il arrête le moteur.
2. **Redémarrez et enfoncez le bouton d'arrêt d'urgence** pour vérifier qu'il arrête le moteur.
3. **Désengagez le frein de stationnement** avant le départ pour éviter la surchauffe et la perte du frein.

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A33A2CA

Instruction 2

CAUTION

- **To comply with noise regulations, this engine is designed to operate with an air intake silencer.**
- **Operation without air intake silencer or with one not properly installed may cause engine damage.**

ATTENTION

- **Le moteur a été conçu pour fonctionner avec ce silencieux d'admission afin de se conformer aux lois et règlements relatifs au bruit.**
- **Son absence ou une mauvaise installation peut endommager le moteur.**

516 001 191

A01A2EA

Instruction 3

WARNING

This guard must ALWAYS be in place when engine is running. Beware of rotating parts – they could cause injuries or catch your clothing.

AVERTISSEMENT

Ce garde-courroie doit TOUJOURS être en place lorsque le moteur fonctionne. Attention aux pièces en rotation – elles peuvent vous blesser ou capter vos vêtements.

516 002 670

A33A2FA

Instruction 4

WARNING

Beware of HOT parts!

AVERTISSEMENT

Attention aux pièces CHAUDES!

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A33A2GA

Instruction 5



A32A1HA

Instruction 6

CAUTION

Use XP-S™ 2-Stroke Synthetic blend
or
XP-S™ Synthetic 2-Stroke oil.

ATTENTION

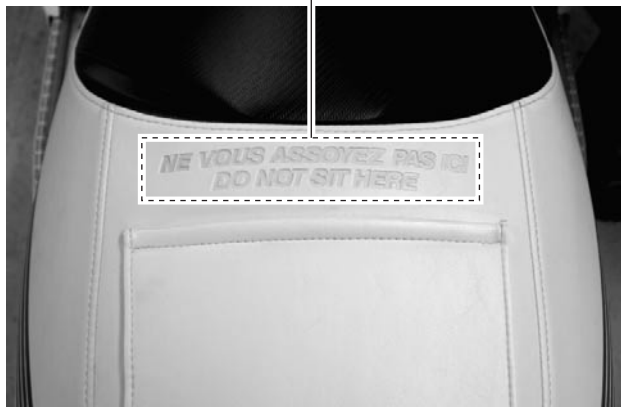
Utilisez de l'huile
semi-synthétique 2-temps XP-S_{HD}
ou synthétique 2-temps XP-S_{HD}.

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A33A2HA

Instruction 7

DO NOT SIT HERE / NE PAS S'ASSEOIR ICI



A33A2IA

TYPICAL

Instruction 8

⚠ WARNING

ALL DRIVERS AND PASSENGERS
MUST READ THE FOLLOWING:

Avoid surprises! BE ON THE LOOK-OUT
for the unexpected. Operate defensively.

- Scan constantly for people, objects, conditions and upcoming vehicles.
- Avoid thin ice / open water.
- Use extra caution whenever off-trail.



⚠ AVERTISSEMENT

TOUS LES CONDUCTEURS ET PASSAGERS
DOIVENT LIRE CE QUI SUIT:

Évitez les surprises! SOYEZ AUX AGUETS
pour les imprévus. Conduisez défensivement.

- Scrutez constamment pour repérer personnes, objets, conditions et autres véhicules.
- Évitez la glace mince / étendue d'eau non gelée.
- Redoublez de vigilance hors sentier.

ALWAYS wear a DOT approved
HELMET and clothing appropriate
for snowmobiling.



TOUJOURS porter un CASQUE
approuvé DOT et des vêtements
appropriés à la motoneige.

NEVER ride after
consuming alcohol or drugs
even as a passenger.



Ne JAMAIS utiliser une motoneige
sous l'influence de drogues ou
alcool même en tant que passager.

516002641

A33A2JA

TYPICAL

Instruction 9

⚠ WARNING

This vehicle is designed for one (1) operator
and as many passengers as there are seats
with straps or handgrips installed on the
vehicle conforming to SSCC standards.

When riding with a passenger :

- Braking ability and steering control are reduced. **Decrease speed** and allow extra space to maneuver.
- **Adjust suspensions** according to weight.

REMEMBER : YOU ARE RESPONSIBLE FOR
THE SAFETY OF YOUR PASSENGER!

⚠ AVERTISSEMENT

Ce véhicule a été conçu pour un (1) conducteur
et autant de passagers qu'il y a de sièges avec
courroies ou poignées installés sur le véhicule
et rencontrant la norme SSCC.

Lors de la conduite avec passager :

- La capacité de freinage et la direction sont réduites. **Réduisez votre vitesse** et prévoyez plus d'espace pour manœuvrer.
- **Ajustez les suspensions** selon le poids.

N'OUBLIEZ PAS : VOUS ÊTES RESPONSABLE
DE LA SÉCURITÉ DE VOTRE PASSAGER!

516 002 672

A33A2KA

Instruction 10

⚠ WARNING

- **Read and understand all warning labels and operator's guide before operation.**
If guide is missing, ask your dealer for a new one.
- **Get familiar with your snowmobile.**
Inexperienced riders may overlook risks and be surprised by snowmobile's specific behavior and terrain conditions.
Ride slowly.
- **Excessive speed and reckless driving can kill !**
ALWAYS adjust your speed according to snow **conditions** and circumstances.
- **Steering control and braking ability may be reduced** on hard-pack snow, ice or roads. Reduce speed & allow more space to stop or turn.
- **Respect laws on minimum operator age.**
Manufacturer recommends a minimum operating age of **16 years old**.

⚠ AVERTISSEMENT

- **Lire et comprendre toutes les étiquettes d'avertissements et le guide du conducteur avant utilisation.**
Si le guide est introuvable, demandez-en un nouveau à votre concessionnaire.
- **Familiarisez-vous avec votre motoneige.**
Les motoneigistes inexpérimentés peuvent sous-estimer les risques et être surpris par le comportement spécifique de la motoneige et des conditions du terrain. Conduisez lentement.
- **La vitesse excessive et la conduite irresponsable peuvent causer la mort !**
TOUJOURS adapter votre vitesse selon les conditions de neige et les circonstances environnantes.
- **Le contrôle de la direction et le freinage peuvent être réduits** sur la neige compactée, la glace ou les routes. Réduisez votre vitesse et allouez plus d'espace pour tourner ou freiner.
- **Respectez les lois sur l'âge minimal du conducteur.**
Le manufacturier recommande que le conducteur soit âgé d'au moins **16 ans**.

516 002 671

A33A2MA

Instruction 11

⚠ WARNING

- **NEVER STAND BEHIND** or near a rotating track.
- **Only spin track at lowest possible speed** whenever off the ground.
Broken track or debris could be projected with great force which could sever legs or cause other serious injuries.



⚠ AVERTISSEMENT

- **NE JAMAIS SE TENIR DERRIÈRE** ou près d'une chenille qui tourne.
- **Seulement faire tourner la chenille à la vitesse la plus basse possible** lorsque soulevée de terre.
Une chenille brisée ou des débris pourraient être projetés avec grande puissance pouvant sectionner une jambe ou causer d'autres blessures sérieuses.

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A33A2NA

Instruction 12

⚠ WARNING

NEVER SIT IN CARGO AREA.

Exceeding maximum cargo load may affect steering control and braking ability.

MAXIMUM cargo load :
15,8 Kg /35 Lbs.

⚠ AVERTISSEMENT

NE JAMAIS S'ASSEOIR À LA PLACE DU CARGO.

Excéder le poids maximal du cargo peut affecter le contrôle de la direction et la capacité de freinage.

Charge MAXIMALE cargo :
15,8 Kg / 35 Lbs.

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A33A20A

Instruction 13

⚠ WARNING

EMERGENCY STARTING

- NEVER wind rope around your hand.
- If starter clip remained stuck, your hand could be pulled in by the clutch.
- See operator's guide for proper procedure.

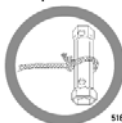


A33A2PA

⚠ AVERTISSEMENT

DÉMARRAGE D'URGENCE

- Ne JAMAIS enrouler la corde autour de votre main.
- Si l'agraffe restait attachée sur la poulie motrice, votre main pourrait être entraînée dans la poulie.
- Voir votre guide de l'opérateur pour connaître la méthode d'utilisation adéquate.



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Instruction 14

⚠ AVERTISSEMENT

Le condensateur peut produire une étincelle si court-circuité.

- Une étincelle peut enflammer les vapeurs d'essence.
- Garder tout objet éloigné des bornes.
- Si démonté du véhicule, toujours décharger adéquatement.

A33A20A

⚠ WARNING

Capacitor May Spark If Shorted.

- Spark can ignite fuel vapors.
- Keep objects away from poles.
- When removing from vehicle, always discharge properly.

CAPACITOR CONDENSATEUR



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MANUAL START MODELS

Instruction 15

CAUTION

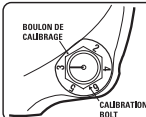
This snowmobile is calibrated for operating at altitudes between 2000 ft and 8000 ft. Refer to following chart for correct maximum horsepower/RPM. Operating this snowmobile below 2000 ft OR above 8000 ft requires calibration parts, adjustments and TRA drive pulley roller pin weights MUST be changed. For more details contact your authorized Ski-Doo dealer. Failure to re-calibrate may cause serious engine damage.

MAXIMUM HORSEPOWER/RPM CHART TABLEAU RÉGIME DE PUISSANCE MAXIMALE

Engine Type-Moteur	RPM•TR/MN (+/-100)
X X X	X X X X
X X X	X X X X
X X X	X X X X

ATTENTION

Cette motoneige est calibrée en fonction d'une utilisation en altitude situé entre 600 mètres et 2400 mètres. Se référer au tableau suivant pour connaître le régime de puissance maximale TR/MN. Si on utilise cette motoneige à moins de 600 mètres et au delà de 2400 mètres, il est nécessaire de la régler, d'installer certaines pièces de calibration ainsi que de changer le poids des goupilles des rouleaux assemblés de la poulie TRA. Pour plus de détails, consulter un concessionnaire autorisé de motoneiges Ski-Doo. Sans ce réglage, le moteur peut-être gravement endommagé.



Adjust all three drive pulley bolts to same position.
Increase number = Increase RPM.
Decrease Number = Decrease RPM.

Régler tous les boulons de la poulie motrice à la même position.

Augmenter le numéro = Augmenter le régime TR/MN
Diminuer le numéro = Diminuer le régime TR/MN

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SUMMIT MODELS — NORTH AMERICA

CAUTION

This snowmobile is calibrated for **SEA-LEVEL** operation.
Operating this snowmobile above 2000 ft. requires
calibration parts and adjustments.
Refer to following chart for correct maximum horsepower RPM.
For more details, refer to Operator's Guide or see
your authorized Ski-Doo dealer.
Incorrect adjustments may cause parts damage.

MAXIMUM HORSEPOWER/RPM CHART TABLEAU RÉGIME DE PUISSANCE MAXIMALE

Engine Type•Moteur	RPM•TR/MN (+/-100)
X X X	X X X X
X X X	X X X X
X X X	X X X X

ATTENTION

Cette motoneige est calibrée en fonction d'une utilisation
au **NIVEAU DE LA MER**.

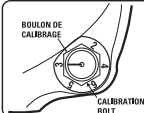
Si on utilise cette motoneige au delà de 600 mètres

il est nécessaire de la recalibrer et d'installer certaines pièces.

Se référer au tableau suivant pour connaître le régime de puissance
maximale TR/MN.

Pour plus de détails, se référer au Guide du conducteur ou consulter
un concessionnaire autorisé de motoneiges Ski-Doo.

Sans cette recalibration, certaines pièces peuvent être endommagées.



Adjust all three drive pulley bolts to same position.

Increase number = Increase RPM.

Decrease Number = Decrease RPM.

Régler tous les boulons de la poulie motrice
à la même position.

Augmenter le numéro = Augmenter le régime TR/MN

Diminuer le numéro = Diminuer le régime TR/MN

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SUMMIT MODELS — EUROPE

Instruction 16



EUROPEAN MODELS

Instruction 17

EMISSION CONTROL INFORMATION		RENSEIGNEMENTS SUR LE DISPOSITIF ANTIPOLLUTION	
This vehicle is certified to operate on unleaded gasoline and conforms to 2006 U.S., EPA regulations for snowmobile SI engines.		Ce véhicule est certifié pour fonctionner à l'essence sans plomb et il répond aux normes 2006 de l'EPA des É.-U. pour les motoneiges à moteur SI.	
Engine family	XXXXXXXXXX	Famille de moteur	
FEL	XXXXXXXXXX XXXXXXXXXXXX	Limite des émissions de la famille	
Engine displacement	XXXXXX	Cylindrée	
Exhaust emission control system:	XXX	Système de contrôle des Émissions	
Tune-up specifications		Données de mise au point	
Idle speed	XXXXXXXXXX XXXXXXXXXXXX	Vitesse de ralenti	
Spark plug type	XXXXXXXXXX	Type de bougie	
Spark plug gap	XXXXXXXXXX XXXXXXXXXXXX	Écartement des électrodes	
Bombardier Motor Corporation of America		516002805	

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Instruction 18

VEHICLE ENGINE DESCRIPTION:

XXXXX

EPA CERTIFIED

NER (NORMALIZED EMISSION RATE) =

ON A 0 TO 10 SCALE, 0 BEING THE CLEANEST

***NOT TO BE REMOVED PRIOR TO SALE**



704901107

vmo2006-005-009_en

HANGTAG

ENVIRONMENT INFORMATION

GENERAL

Wildlife compliments your snowmobiling day. Snowmobile tracks provide firm ground over which animals can travel from area to area. Do not violate this privilege by chasing or harassing wildlife. Fatigue and exhaustion can lead to animal's death. Avoid areas posted for the protection or feeding of wildlife.

If you happen to be fortunate enough to see an animal, stop your snowmobile and observe quietly.

The guidelines that we support are not designed to limit your snowmobiling fun, but to preserve the beautiful freedom that you can experience only on a snowmobile! These guidelines will keep snowmobilers healthy, happy and able to introduce others to what they know and enjoy about their favorite winter pastime. So, the next time you hit the trails on a cool, crisp and clear winter day, we ask you to remember that you are paving the way for the future of our sport. Help us lead it down the right path! From all of us at BRP, thank you for doing your share.

There is nothing more exhilarating than snowmobiling. Venturing onto snowmobile trails that criss-cross the wild areas of the U.S. and Canada is an exciting and healthy winter sport. However, as the number of people using these recreational parks increases, so does the potential for damage to the environment. Abuse of land, facilities and resources inevitably leads to restrictions and closures of both private and public land.

In essence, the greatest threat to our sport, is all around us. Which leaves us with one logical choice. When we snowmobile, we must always ride responsibly.

The vast majority respect the law and the environment. Each of us must set an example for those who are new to the sport, young and old alike.

It is in every one's best interest to tread lightly into our recreational areas. Because, in the long run, to protect the sport we must preserve the environment.

Recognizing the importance of this issue and the need for snowmobilers to do their share in preserving areas that make it possible to enjoy our sport, BRP has developed the "Light Treading Is Smart Sledding" campaign for snowmobilers.

Light Treading refers to more than the thread of our tracks. It's a statement of concern, respect and willingness to take the lead and take action. It applies to the environment in general, its proper care and maintenance, its natural inhabitants and all enthusiasts and the public at large who enjoy the great outdoors. With this theme, we invite all snowmobilers to remember that respecting the environment is not only critical to the future of our industry but to future generations.

Light Treading in no way suggests you should curb your appetite for snowmobiling fun! It simply means tread with respect!

JUST WHAT IS LIGHT TREADING?

The fundamental objective of Light Treading is one of respect for where and how you ride a snowmobile. You're a light treader when you follow the principles below.

Become informed. Obtain maps, regulations and other information from the Forest Service or from other public land agencies. Learn the rules and follow them and that goes for speed limits, too!

Avoid running over young trees, shrubs, and grasses and don't cut wood. On flatlands or areas where trail riding is popular, it's important to ride only where authorized. Remember, there is a link between protecting your environment and your own safety.

Respect wildlife and be particularly sensitive of animals that are rearing young or suffering from food shortage. Stress can sap scarce energy reserves. Refrain from riding in areas where only animals are intended to tread!

Obey gate closures and regulatory signs and remember, light treaders don't litter!

Stay out of wilderness areas. They're closed to all vehicles. Know where the boundaries are.

Obtain permission to travel across private land. Respect the rights of landowners and other people's privacy. Remember, snowmobile technology has lowered the noise factor considerably, but you still shouldn't rev your engines where quiet "is the order of the day".

WHY IS LIGHT TREADING SMART

Snowmobilers know all too well the efforts that have been made throughout the sport's history to enjoy access to areas where people can snowmobile safely and responsibly. This effort continues today, as strong as ever.

Respecting the areas where we ride... wherever they may be... is the only way to ensure their future enjoyment. That's one major reason why we know you'll agree that Light Treading Is Smart Sledding! And there are more.

Enjoying the opportunity to see winter and all its natural majestic wonders, is an experience cherished by snowmobilers. Light Treading will preserve this opportunity and will make it possible for us to expose others to the beauty of winter and the unique thrill of our sport! Light Treading will help our sport to grow!

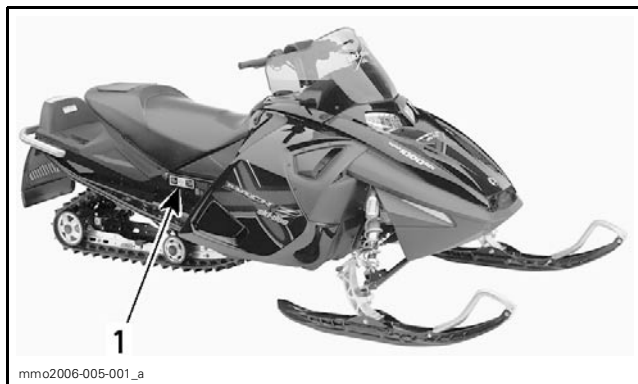
Finally, Light Treading is the sign of a smart snowmobiler. You don't have to leave big tracks or careen through a virgin forest to show you can ride. So whether you're driving a high performance Ski-Doo, a sporty MX-Z snowmobile or any other make or model, show you know what you're doing. Show you know how to send snow flying and make tracks with a light touch!

VEHICLE INFORMATION

HOW TO IDENTIFY YOUR SNOWMOBILE

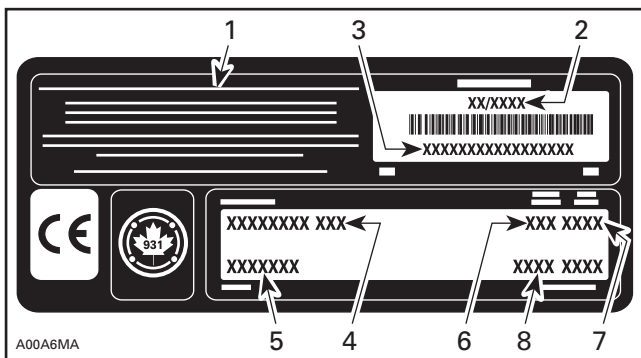
Vehicle Description Decal

Vehicle description decal is located on right hand side of tunnel.



TYPICAL

1. Vehicle description decal



VEHICLE DESCRIPTION DECAL

1. Manufacturer name
2. Manufacturing date
3. Vehicle identification number (VIN)
4. Model name
5. Option package
6. Engine type
7. Model year
8. Color codes

Serial Numbers

The main components of your snowmobile (engine and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of loss. These numbers are required by the authorized SKI-DOO dealer to complete warranty claims properly. No warranty will be allowed by BRP if the engine serial number or vehicle identification number (VIN) is removed or mutilated in any way. We strongly recommend that you take note of all the serial numbers on your snowmobile and supply them to your insurance company.

Vehicle Identification Number (VIN) Location

VIN is scribed on vehicle description decal. See above. It is also engraved on tunnel near vehicle description decal.

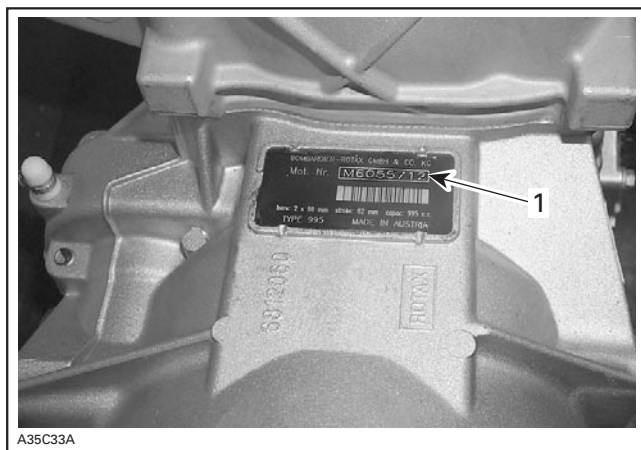
Model Number Location

Model number is part of vehicle identification number (VIN).

2 B P S B X 5 A 9 Y 1 0 0 0 0 1										
Model number				Model year: y = 2000			Serial number			
				1 = 2001						
				2 = 2002						
				etc.						
A00A8HA										

VIN DESCRIPTION

Engine Serial Number Location



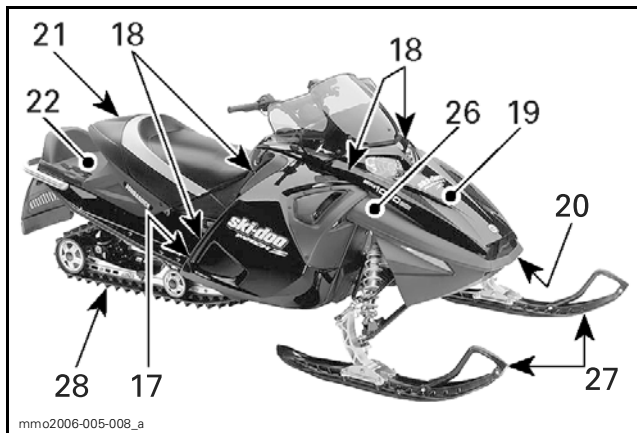
A35C33A

TYPICAL

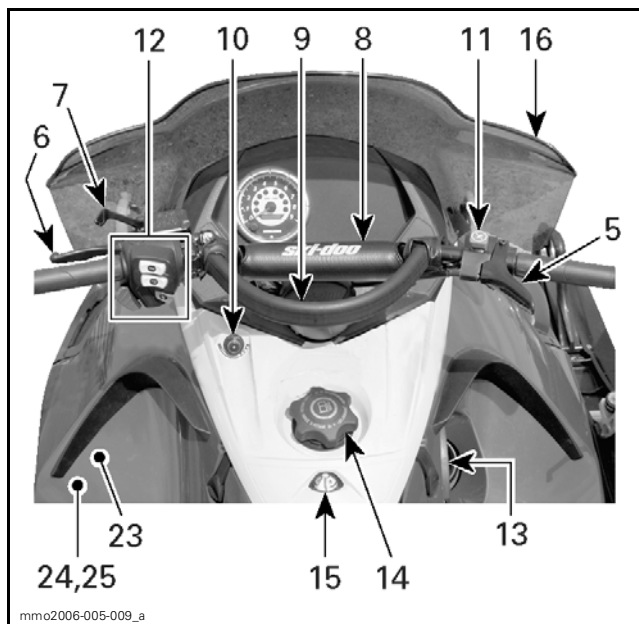
1. Engine serial number

CONTROLS/INSTRUMENTS/EQUIPMENT

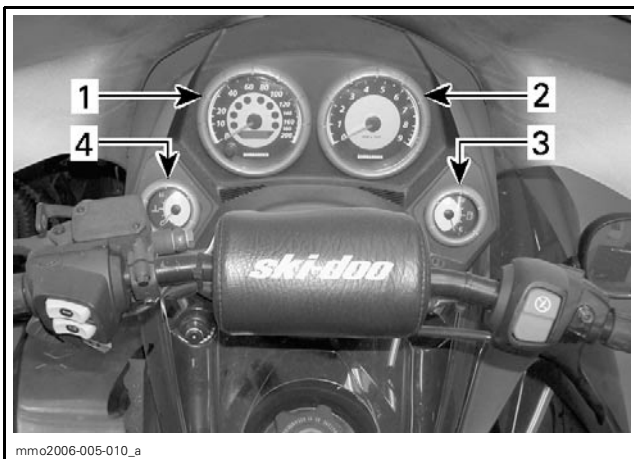
NOTE: Some controls/instruments/equipment do not apply or are optional on some models. In these cases their reference numbers are deliberately missing in the illustrations.



TYPICAL



TYPICAL



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TYPICAL

1) Speedometer/Tachometer

Mach Z and MX Z Models

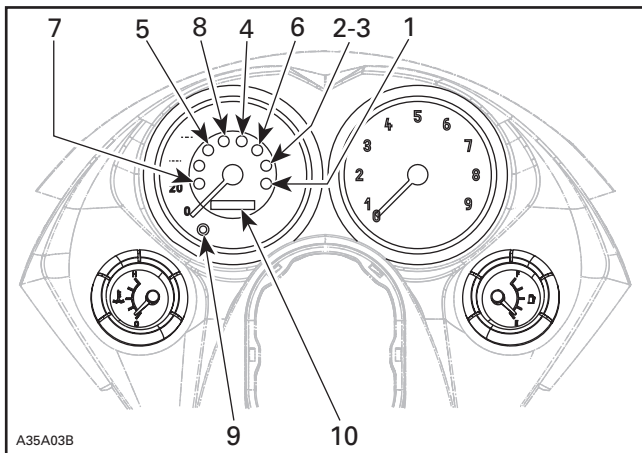
These models are equipped with an electronic speedometer. It may show speed in km/h or MPH.

NOTE: At vehicle speed of 90 km/h (55 MPH) and more, the multi-function display will show speed only instead of the selected mode.

Summit Models

These models are equipped with a tachometer that includes a multi-function display on which speed is shown in km/h or MPH.

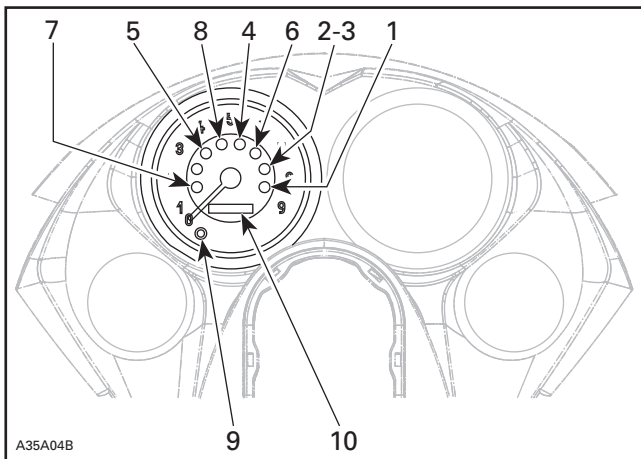
NOTE: As soon as the vehicle is moving, the multifunction display will show speed only instead of the selected mode.



A35A03B

TYPICAL — MACH Z AND MX Z MODELS

1. Brake/parking brake pilot lamp (red)
2. Reverse pilot lamp
3. DESS pilot lamp
4. High beam pilot lamp (blue)
5. Oil pilot lamp
6. Low battery voltage pilot lamp
7. Engine management system (EMS) pilot lamp
8. Engine overheat warning lamp (red)
9. Mode button
10. Multifunction display



A35A04B

TYPICAL — SUMMIT MODELS

1. Brake/parking brake pilot lamp (red)
2. Reverse pilot lamp
3. DESS pilot lamp
4. High beam pilot lamp (blue)
5. Oil pilot lamp
6. Low battery voltage pilot lamp
7. Engine management system (EMS) pilot lamp
8. Engine overheat warning lamp (red)
9. Mode button
10. Multifunction display

Brake/Parking Brake Pilot Lamp (Red)

Illuminate when brake or parking brake is applied (with engine running).

Reverse Pilot Lamp

This pilot lamp will illuminate when reverse is selected.

DESS Pilot Lamp

This lamp will illuminate to confirm DESS status. Refer to previous paragraphs for description.

High Beam Pilot Lamp (Blue)

Illuminate when headlamp is on HIGH beam.

Oil Pilot Lamp

This pilot lamp will illuminate when injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.

Low Battery Voltage Pilot Lamp

This lamp will illuminate to indicate a low battery voltage condition (on equipped models). See an authorized SKI-DOO dealer as soon as possible.

Engine Management System (EMS) Pilot Lamp

This lamp will illuminate to indicate a problem. Refer to *TROUBLESHOOTING* for trouble code definition and remedy.

Engine Overheat Warning Lamp (Red)

If this lamp illuminate, reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.

Mode Button

Depress mode button to change multifunction display. Each time engine is started, display shows odometer. From that point depressing mode button will change display for the trip meter.

Depressing mode button again will change display for the resettable hourmeter. Push mode button again to return to odometer.

Push and hold mode button for 2 seconds to reset the trip meter or the resettable hourmeter depending on the one displayed.

Multifunction Display

Odometer

Odometer records the total distance travelled and displays it either in miles or kilometers. Refer to *UNIT MODIFICATION (MPH VS KMH)* for changing units.

Trip Meter

Records distance travelled since it has been reset. Distance travelled is displayed either in miles or kilometers. Refer to *UNIT MODIFICATION (MPH VS KMH)* for changing units.

Resettable Hourmeter

Records engine running time in hours and minutes since it has been reset.

Push and hold mode button for 2 seconds to reset the hourmeter.

Multifunction Display code

If your speedometer shows **SCALE** in the multi-function display, it means that the display selector button is stuck in the down position or depressed when the electrical system was activated.

Unit Modification (MPH vs KMH)

NOTE: Speedometer, odometer and trip meter units (kilometer or miles) will all be changed together.

Stop engine and open LH side panel.

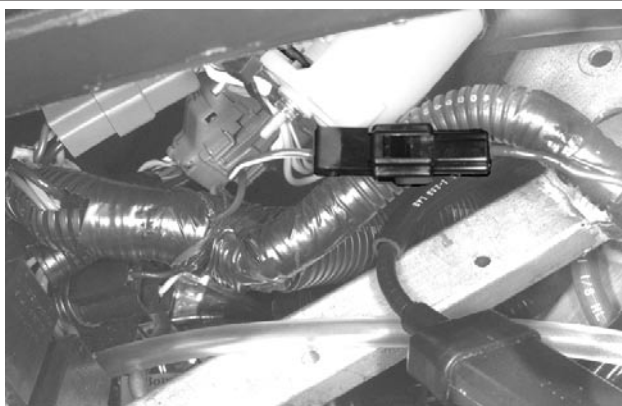
Connectors are located underneath console near steering column.

Underneath console, look for:

- 1 circuit male connector housing with BLACK/GREY wire
- 1 circuit female connector housing with BLACK/BLUE wire.

Cut locking ties. Plug connectors together to change units from miles to kilometers.

Unplug to return to miles reading. Fasten connector to harness with locking ties.



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TYPICAL

2) Tachometer

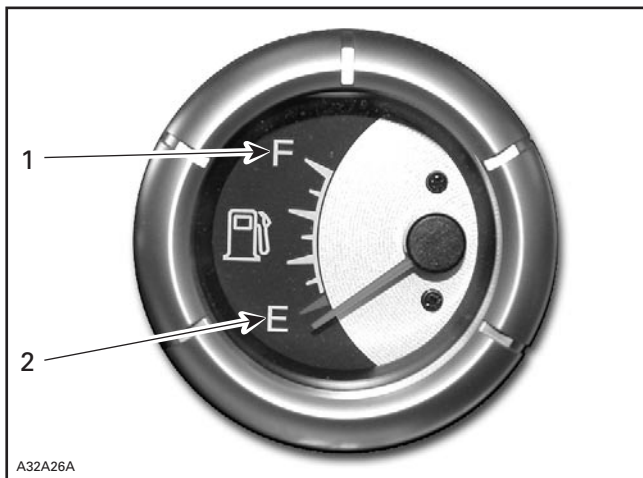
Direct-reading dial indicates the number of thousand of revolutions per minute (RPM) of the engine.



TYPICAL — MULTIPLY THE READING BY 1000

3) Electric Fuel Level Gauge

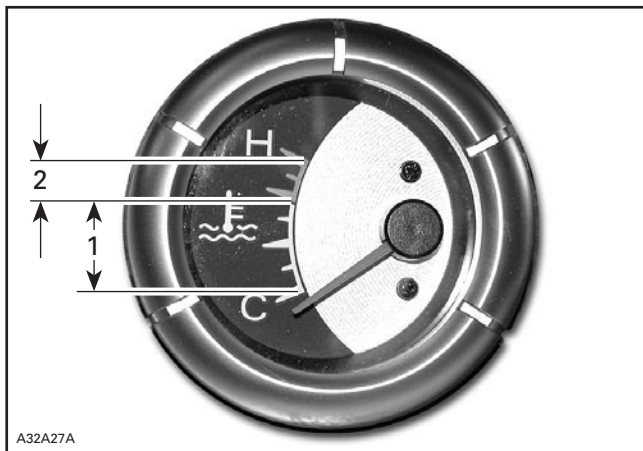
Dash-mounted gauge to facilitate fuel level reading. This gauge functions when engine is running.



- TYPICAL**
1. Full
2. Empty

4) Temperature Gauge

The gauge indicates engine coolant temperature. The needle moves to the normal range as engine warms. Under all riding conditions, the needle should stay within this range. If needle moves into the overheat range, reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.



TYPICAL

1. Normal
2. Overheat

5) Throttle Lever

Located on the right hand side of handlebar and designed to be thumb activated. When squeezed, it increases the engine speed and engages the transmission. When released, engine speed returns automatically to idle.

WARNING

Test the throttle lever operation each time before starting the engine. The lever must return to its original position once released. Otherwise, do not start engine.

6) Brake Lever

Located on the left hand side of handlebar. When squeezed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportional to the pressure applied on the lever and to the type of terrain and its snow coverage.

7) Parking Brake Lever

Located on left hand side of handlebar. Parking brake should be used whenever snowmobile is parked.

Whenever parking brake is applied and engine is running, injection oil level/parking brake pilot lamp lights up to remind you that it is engaged.

WARNING

Make sure parking brake is fully disengaged before operating the snowmobile. When you ride the vehicle, brake pads that are caused to drag by a continuous pressure on the lever may cause damage to the brake system and cause loss of braking capacity and/or fire.

To engage mechanism

Squeeze brake lever and maintain while pulling locking lever with a finger in the desired locking position. When brake lever is held at halfway the parking brake should be fully applied.

To release mechanism

Squeeze brake lever. Locking lever will automatically return to its original position. Always release parking brake before riding.

8) Handlebar

The handlebar controls the steering of the snowmobile. As the handlebar is rotated to right or left, the skis are turned right or left to steer the snowmobile.

WARNING

Fast reverse while turning, could result in loss of stability and control.

9) Holding Strap

Holding strap provides a grip for driver when side-hilling.

WARNING

This strap is not for towing, lifting or other purpose than temporary use as a grab bar during side-hilling. Always keep at least one hand on handlebar.

10) Tether Cut-Out Switch

General

When the tether cord cap is removed, it shuts the engine off preventing snowmobile to runaway if the operator falls off the vehicle accidentally.

WARNING

Always remove tether cord cap when vehicle is not in operation in order to prevent accidental engine starting, to avoid unauthorized use by children or others or theft.

Operation

Attach tether cord eyelet to clothing, then snap tether cord cap over post before starting engine.



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TYPICAL

1. Snap over post
2. Attach to eyelet

If emergency engine shut off is required, completely pull tether cord cap from post.

DESS (Digitally Encoded Security System) Key/Cut-Out Switch

On these models, the tether cord cap is digitally encoded to provide you and your snowmobile with the equivalent security of a conventional lock key and its shuts off the engine preventing snowmobile to runaway if the operator falls off the vehicle accidently.

The tether cord provided with your snowmobile contains an electronic chip in its cap which features a unique permanently memorized digital code. Your authorized SKI-DOO dealer programs this tether cord in the ECM (Engine Control Module) of your snowmobile to allow engine operation above 3000 RPM if and only if this unique code has been read after engine starting.

If another tether cord is installed, the engine will start but will not reach drive pulley engagement speed to move vehicle.

Additional Tether Cords

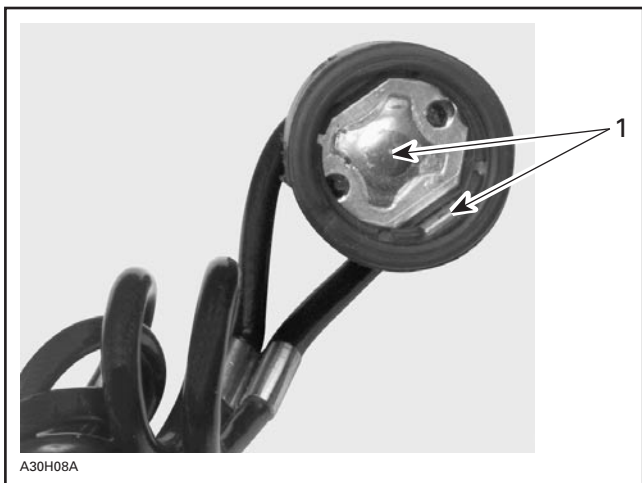
The ECM of your snowmobile can be programmed by your authorized SKI-DOO dealer to accept 8 different tether cords.

We recommend the purchase of additional tether cords from your authorized SKI-DOO dealer. If you have more than one DESS-equipped SKI-DOO snowmobile, each can be programmed by your authorized SKI-DOO dealer to accept the other vehicles tether cords.

DESS Pilot Lamp Codes

DESS pilot lamp blinking slowly (one time per 1.5 seconds) means that a bad connection has been detected. Vehicle can not be driven.

To check for bad connection, remove. Make sure the tether cord is free of dirt or snow. Reinstall cap and restart engine. If a blink per 1.5 seconds still occurs contact an authorized dealer.

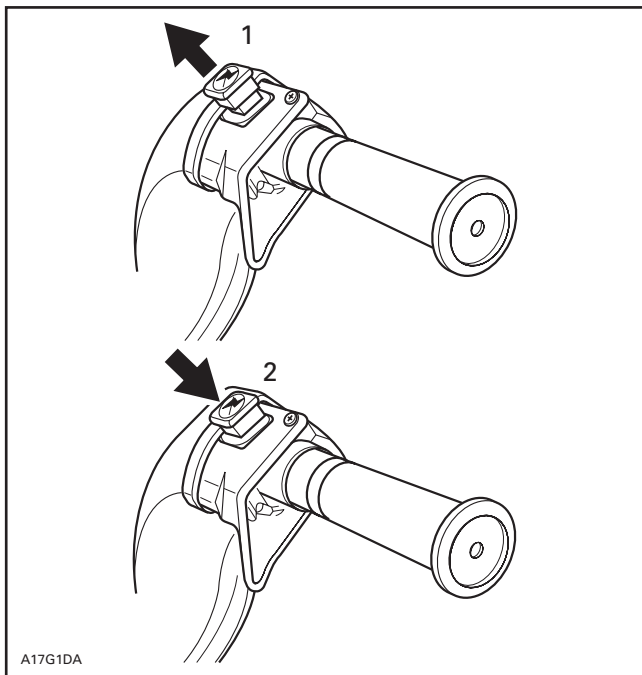


1. Free of dirt or snow

A DESS pilot lamp blinking 3 times per second means that you have installed a cap with a code the ECM of this snowmobile is not programmed to recognize. Vehicle can not be driven.

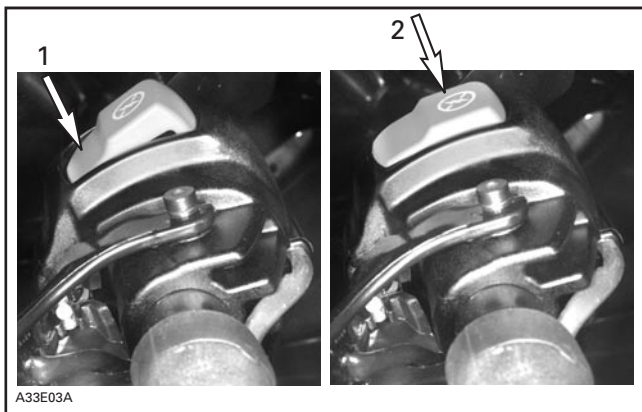
11) Engine Cut-Out Switch

This push-pull type or toggle type switch (depending on models) is located on the right hand side of the handlebar. To stop the engine in an emergency, select OFF position and simultaneously apply the brake. To restart, button must be at the ON position.



TYPICAL — SUMMIT MODELS

1. ON (pull)
2. OFF (push)



TYPICAL — ALL MODELS EXCEPT SUMMIT

1. ON
2. OFF

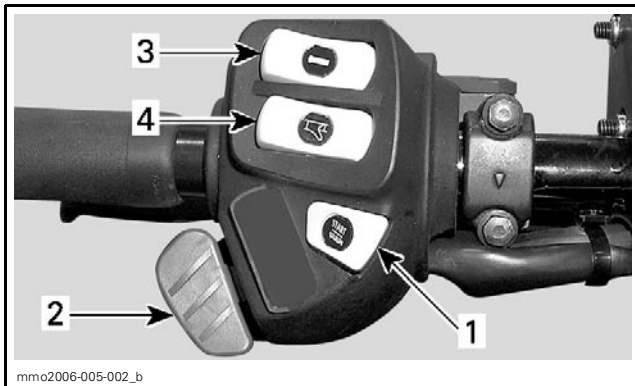
All operators of the snowmobile should familiarize themselves with the function of this device by using it several times on first outing and whenever stopping the engine thereafter. This engine cut-out procedure will become a reflex and will prepare operators for emergency situations requiring its use.

WARNING

If the switch has been used in an emergency caused by a suspected malfunction, the source of the malfunction should be determined and corrected before restarting engine. See an authorized SKI-DOO dealer for servicing.

12) Multifunction Switch

Located on left hand side of handlebar.

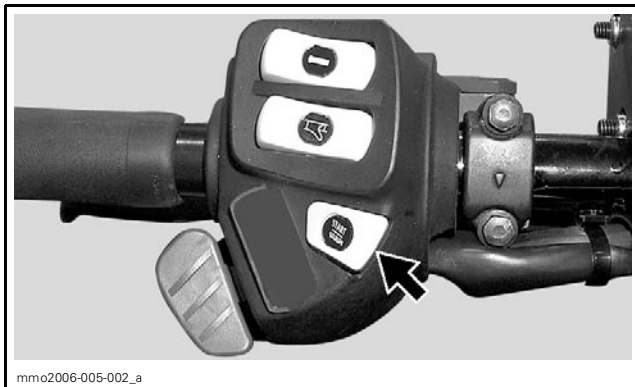


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TYPICAL

1. *START/STOP button*
2. *High beam/low beam switch*
3. *Heating grip switch*
4. *Throttle lever switch*

START/STOP Button



mmo2006-005-002_a

TYPICAL

General (START/RER Button)

The START/RER button has two functions.

When the engine is not running, depressing the START/RER button will engage the electric starter on vehicle so equipped and start the engine.

When the engine is running, depressing the START/RER button will command the engine to reverse crankshaft rotation as driving the snowmobile in reverse is achieved by changing the direction of rotation of the engine, not by shifting the chaincase in reverse gear.

When depressing the START/RER button, the electronic module will practically slow down the engine RPM to a stop and advance the ignition timing to cause crankshaft rotation reversing.

Engine will automatically shift into forward when starting after stopping or stalling.

Shifting procedure will take place only when the engine is running.

If engine is running at a speed above 4300 RPM, the reverse function of the START/RER button is cancelled.

It is recommended to warm up the engine to its normal operating temperature before shifting.

Start Mode (START/RER Button)

To start engine, push START/RER button and hold until engine has started.

CAUTION: Do not hold START/RER button more than 10 seconds. A rest period should be observed between the cranking cycles to let starter cool down. Holding START/RER button when engine has started could damage starter mechanism.

Release START/RER button immediately when engine has started.

If engine does not start on first try, wait a few seconds then repeat procedure. To stop engine, turn off engine cut-out switch or pull off tether cord cap.

NOTE: If necessary engine may be manually started with rewind starter (if so equipped).

Shifting to Reverse (START/RER Button)

WARNING

Shifting to reverse mode on these snowmobiles is done by depressing the START/RER button when the engine is running. Wait until the reverse alarm sounds and the DESS/RER pilot lamp comes on in the dash before operating throttle to proceed in reverse. The reverse speed of these snowmobiles is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability. Come to complete stop before depressing START/RER button. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.

With the snowmobile completely stopped and engine running at idle, press and release the START/RER button.

The DESS™/RER™ pilot lamp will blink and a warning buzzer will sound once every second with a half of second duration when the snowmobile is engaged in reverse.

Apply throttle slowly and evenly. Allow drive pulley to engage then accelerate carefully.

Shifting in Forward

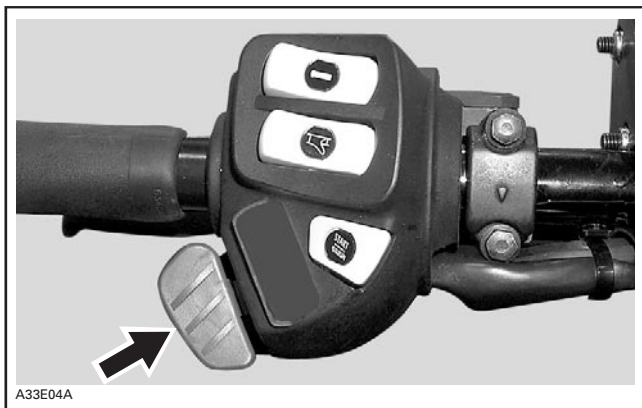
With the snowmobile completely stopped and engine running at idle, press and release the START/RER button.

DESS/RER pilot lamp and warning buzzer will stop.

Apply throttle slowly and evenly. Allow drive pulley to engage then accelerate carefully.

High Beam/Low Beam Switch

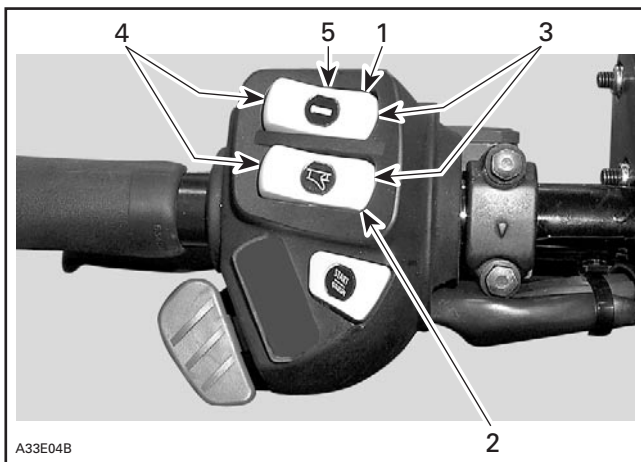
Allows selection of headlamp high beam or low beam. Note that lights are automatically low beam whenever the engine is running.



TYPICAL

Heating Grip/Throttle Lever Switch

It is a three-position switch. Select the desired position to keep your hands and/or thumb at a comfortable temperature.



TYPICAL

1. Heating grip switch
2. Heating throttle lever switch
3. Hot
4. Warm
5. Off (middle)

13) Rewind Starter Handle

Auto-rewind type located on right hand side of snowmobile. To engage mechanism, pull handle slowly until a resistance is felt then pull vigorously. Slowly release handle.

14) Fuel Tank Cap

Unscrew to fill up tank then fully tighten.

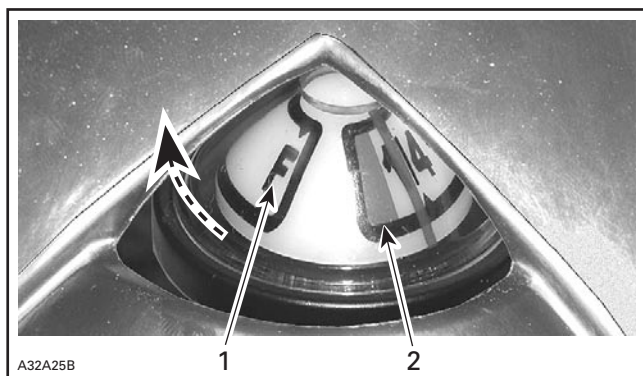
WARNING

Always stop the engine before refueling. Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Do not overfill or top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the vehicle. Periodically verify fuel system.

NOTE: Do not sit or lean on seat when fuel tank cap is not properly installed.

15) Mechanical Fuel Level Gauge

Located at rear of fuel tank cap the gauge facilitates fuel level reading.



TYPICAL

1. Full
2. Empty

Some Summit Models

Open fabric door to see the fuel level through the translucent fuel tank.



1. Fabric door

16) Windshield

Windshield provides operator comfort, as well as protection by deflecting wind and snow away from the operator.

17) Adjustable Toeholds

Each toehold can be adjusted to suit driver's preference. Loosen bolts, adjust then, retighten bolts to 7.5 N•m (66 lbf•in).

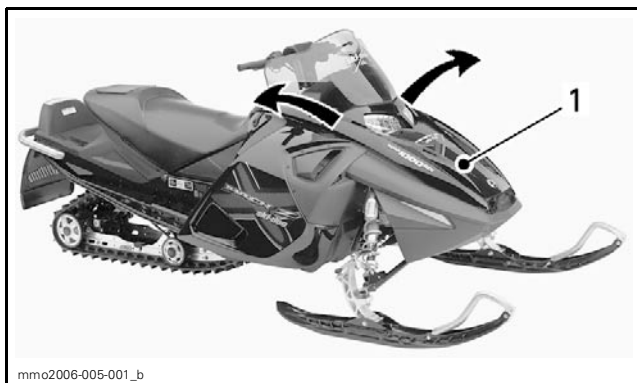
⚠ WARNING

Adjust with vehicle at rest in a safe place. Do not adjust too snugly to trap booted foot. Securely tighten all adjustments.

18) Hood and Side Panel Latches

Hood

To open hood, slightly pull-out top edges on both sides in order to unhook its anchors from their grommets.

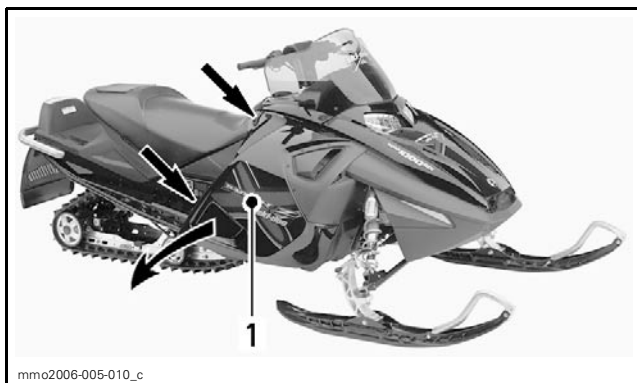


UNHOOK ANCHOR FROM ITS GROMMET ON BOTH SIDES

1. Hood

Side Panels

To open a side panel, stretch and unhook the latches.

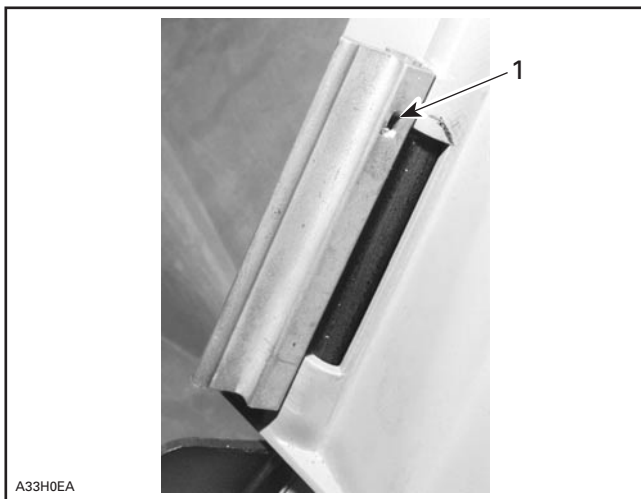


STRETCH AND UNHOOK THE LATCHES

1. Side panel

To remove a side panel, open panel, locate locking device on lower hinge and pull upward.

Remove completely then pull panel forward to release from its opening.

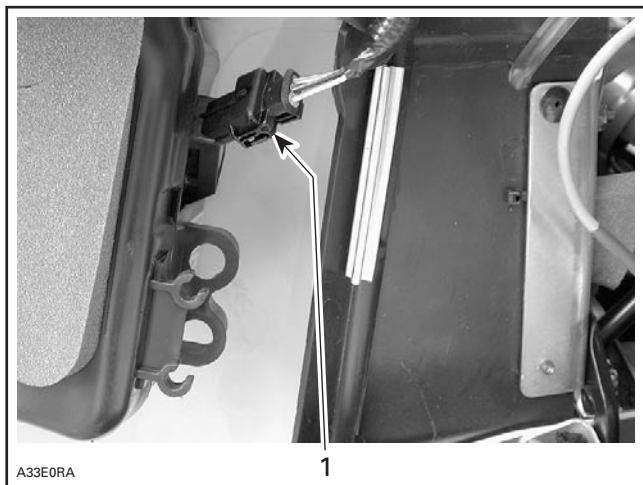


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TYPICAL

1. *Locking device*

On left hand side panel, unplug sensor from air silencer.



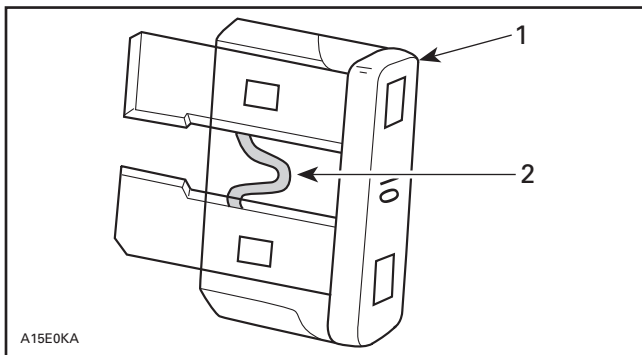
TYPICAL

1. Sensor

Reverse opening procedure to close hood and side panels. Properly hook up latches.

19) Fuses

To remove fuse from holder, pull fuse out. Check if filament is burnt out.



1. Fuse
2. Check if burnt out

CAUTION: Do not use a higher rated fuse as this can cause severe damage to electric components and/or fire.

WARNING

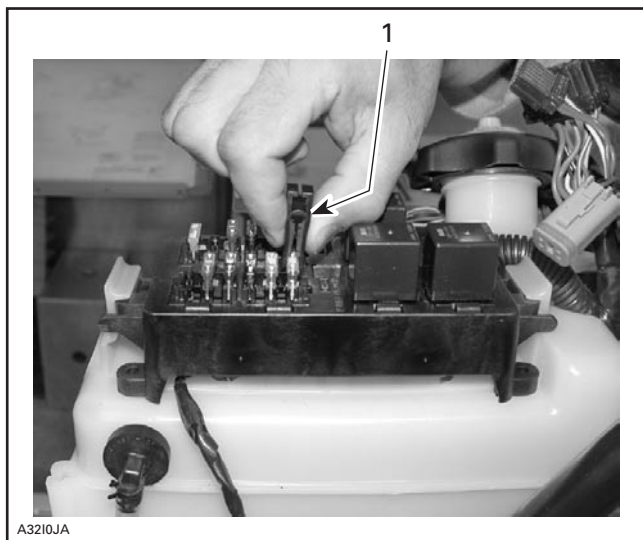
If fuse has burnt out, source of malfunction should be determined and corrected before restarting. See an authorized SKI-DOO dealer for servicing.

To open fuse box push on cover tab and tilt cover.



TYPICAL

1. Push tab



TYPICAL — FUSE REMOVAL

1. Fuse remover/installer

Mach Z

Electric Fuel Level Gauge Fuse

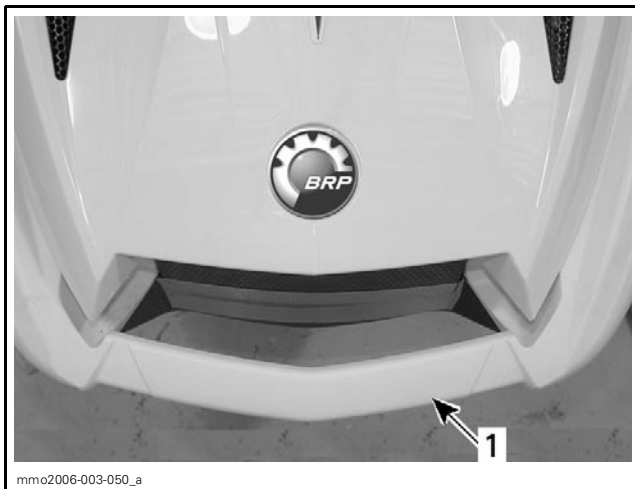
See an authorized SKI-DOO dealer for fuse replacement.

20) Front Grab Handle/Front Bumper

To be used whenever front of snowmobile requires manual lifting.

⚠ WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device or have assistance to share lifting stress in order to avoid risk of strain injuries.



1. Front grab handle

CAUTION: Do not use skis to pull or lift snowmobile.

21) Storage Compartment

⚠ WARNING

All storage compartments must be properly latched and they must not contain any heavy or breakable objects.

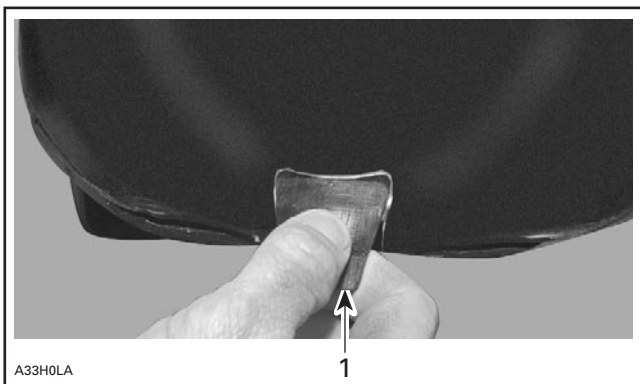
Summit Highmark Models



1. Storage compartment cover

Mach Z and MX Z Models

Pull latch slightly upward then, backward to unlock cover.



1. Latch

22) Rear Rack

WARNING

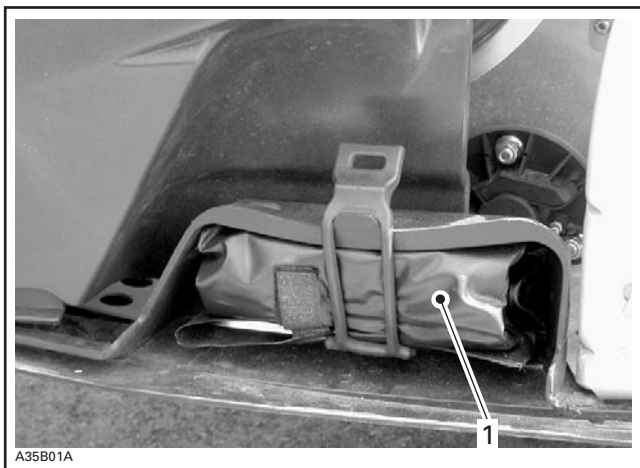
All objects in rear rack must be properly latched. Do not carry any breakable objects. Excessive weight in rack may reduce steering ability.

CAUTION: Always readjust suspension according to the load. The capacity of this rack is limited. Ride at very low speed when loaded. Avoid speed over bumps.

23) Tool Kit

A tool kit containing tools for basic maintenance is supplied with the vehicle.

Tool bag is located in engine compartment in front of left hand side toehold.



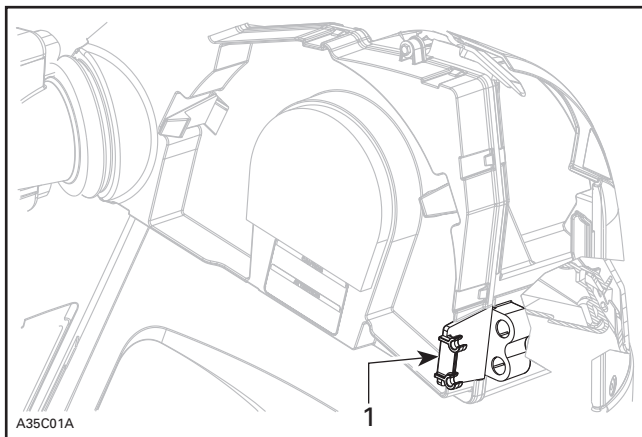
LH SIDE OF VEHICLE

1. Tool kit

24) Spark Plug Holder

To keep spare spark plugs dry and prevent shocks that might affect the gap adjustment or break them, a holder is provided in engine compartment.

The spark plug holder is located on the air intake silencer inside the LH side panel.



SPARK PLUG HOLDER ON LEFT HAND SIDE PANEL

1. Spare spark plugs holder

NOTE: Spare spark plugs are not supplied with snowmobile.

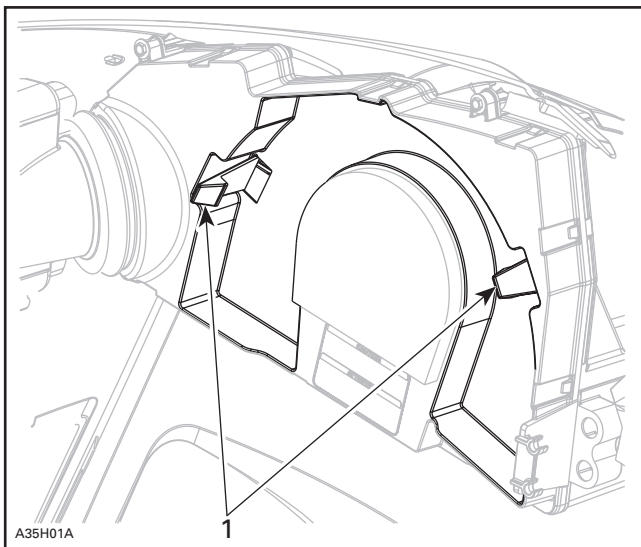
NOTE: Check spare spark plug gap according to *SPECIFICATIONS* before installation.

CAUTION: Do not attempt to adjust gap on spark plug BR8ECS.

25) Spare Drive Belt Holder

A spare drive belt can be stored in holder.

NOTE: Spare drive belt is not supplied with the snowmobile.



SPARE DRIVE BELT HOLDER ON LEFT HAND SIDE PANEL

1. Spare drive belt holder

26) Shields and Guards

WARNING

Never operate engine without belt guard securely installed or, with hood or access/side panels open or removed.

Your snowmobile is provided with a number of shields and guards. Leave these in place on your vehicle as they are designed to keep clothing and hands out of moving parts and away from hot components. Never attempt to make adjustments to any moving part while the engine is running.

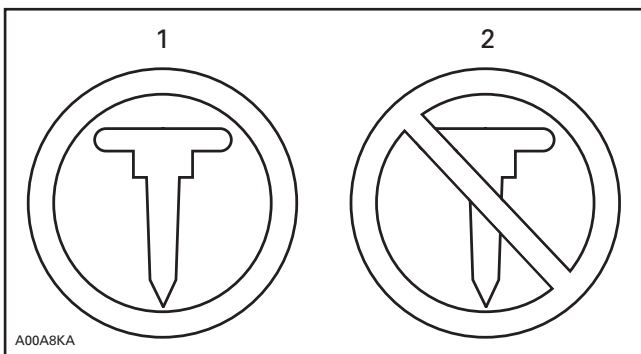
27) Convertible Ski Stance

Summit Models Only

Ski stance (distance between each ski) is adjustable. See an authorized SKI-DOO dealer.

28) Track

Depending on the model of snowmobile that you own, your vehicle may come with a track for which the manufacturer permits the installation of studs, or a track for which the manufacturer forbids it. Tracks approved for the installation of studs have a stud symbol (see illustration) molded into the track surface, and tracks not approved bear a forbidden stud symbol (see illustration). Before proceeding to the installation of studs on tracks for which it is allowed, you must first acquaint yourself with the safety instructions related to the studing of tracks, found in the section entitled *TRACTION ENHANCING PRODUCTS* in the *SAFETY INFORMATION* section at the beginning of this guide. This section also provides other important information that you must consider before having studs installed on a track.



TRACK SYMBOLS

1. *Approved*
2. *NOT approved*

Generally, snowmobiles adapted for mountain riding comes with tracks equipped with high lug profiles. These tracks are optimized for operation on loose snow. Running those tracks on hard packed surfaces put more stress on the lugs, which tend to heat up as a result. Avoid riding a snowmobile equipped with a high lug profiles track in a trail or on hard surfaces for an extended period of time to avoid potential degradation or damage to the track.

For general instructions on maintenance of tracks, refer to the sections *TRACK CONDITION* and *TRACK TENSION AND ALIGNMENT* in the *MAINTENANCE* section of this guide.

FUEL AND OIL

Recommended Fuel

Use premium unleaded gasoline, available from most service stations or oxygenated fuel containing a maximum total of 10% of ethanol or methanol or both. The gasoline used must have the following recommended minimum octane number.

LOCATION	OCTANE NUMBER
Inside North America	91 (RON + MON)/2
Outside North America	95 RON

CAUTION: Never experiment with other fuels or fuel ratios. The use of unrecommended fuel can result in snowmobile performance deterioration and damage to critical parts in the fuel system and engine components. Do not mistake oil reservoir cap for fuel tank cap. Oil reservoir cap is identified OIL.

WARNING

Always stop the engine before refueling. Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Do not overfill or top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the vehicle. Periodically verify fuel system.

Fuel System Antifreeze

When using oxygenated fuel, additional gas line antifreeze or water absorbing additives are not required and should be not used.

When using non-oxygenated fuel, we highly recommend the use of isopropyl base gas line antifreeze in a proportion of 150 mL (5 U.S. oz) of gas line antifreeze added to 40 liters (10-1/2 U.S. gal) of gas.

This precaution is in order to reduce the risk of frost buildup in carburetor(s) which may lead, in certain cases, to high fuel consumption or severe damage to engine.

NOTE: Use only methyl hydrate free gas line antifreeze.

Recommended Oil

CAUTION: Use only injection oil that flows at - 40°C (- 40°F). Do not mismatch oil reservoir cap with fuel tank cap. Oil reservoir cap is identified OIL.

Oil is contained in the injection oil reservoir.

Use only two-stroke engine injection oil sold by authorized SKI-DOO dealers.

MODEL	OIL TYPE
995 SDI (1)	XP-S™ synthetic 2-stroke oil (2) OR XP-S™ 2-stroke synthetic blend (2)

CAUTION: (1) XP-S™ synthetic 2-stroke oil and XP-S 2-stroke synthetic blend oil are specially formulated and tested for the severe requirements of this engine. Use of any other brand two-stroke oil may void the limited warranty. Use only XP-S™ synthetic 2-stroke oil or XP-S 2-stroke synthetic blend. There is no known equivalent on the market for the moment. If a high quality equivalent were available, it could be used.

(2) XP-S™ synthetic 2-stroke and XP-S™ 2-stroke synthetic blend injection oil are compatible, they can be mixed together.

The XP-S™ 2-stroke synthetic blend and XP-S™ synthetic 2-stroke oil **provides superior lubrication**, reduced engine component wear and oil deposit, thus maintaining maximum-level performance and antifriction properties. These synthetic and synthetic blend injection oil meets the latest ASTM and JASO standards by ensuring high biodegradability and low exhaust smoke.

CAUTION: Never use four-stroke petroleum or synthetic motor oil and never mix these with outboard motor oil. Do not use NMMA TC-W, TC-W2 or TC-W3 outboard two-stroke engine oils or ashless two-stroke engine oils. Avoid mixing different brands of API TC oil as resulting chemical reactions may cause severe engine damage.

Always maintain a sufficient amount of recommended oil in the injection oil reservoir.

CAUTION: Check level and refill every time you refuel. Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OIL.

WARNING

Do not overfill. Reinstall cap and fully tighten. Wipe off any oil spills. Oil is highly flammable.

BREAK-IN PERIOD

Engine

CAUTION: A break-in period of 10 operating hours — 500 km (300 miles) — is required before running the snowmobile at full throttle.

During break-in period, throttle position should not exceed 3/4. However, brief full acceleration and speed variations contribute to a good break-in.

CAUTION: Engine overheating, continued wide open throttle runs and prolonged cruising without speed variations should be avoided, this can cause engine damage during the break-in period.

Belt

A new drive belt requires a break-in period of 50 km (30 miles). Avoid strong acceleration/deceleration, pulling a load or high speed cruising.

10-Hour Inspection

NOTE: The 10-hour inspection is at the expense of the snowmobile owner.

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation — 500 km (300 miles) — or 30 days after the purchase, whichever comes first, your snowmobile be checked by an authorized SKI-DOO dealer. This inspection will also give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation.

PRE-OPERATION CHECK

WARNING

The pre-operation check is very important prior to operating the vehicle. Always check the proper operation of critical controls, safety features and mechanical components before starting. If not done as specified here, severe injury or death might occur.

- Remove snow and ice from body, seat, footrests, lights, controls and instruments.
- Verify that track and idler wheels are not frozen and free to turn.

WARNING

Always use a wide base snowmobile mechanical stand to properly support vehicle during any track verification. Slowly accelerate engine in order to rotate track at very low speed when it is not on ground.

- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip. It must fully return when released.
- Check the parking device. Apply parking brake and check if it operates properly.
- Activate the throttle control lever several times to check that it operates easily and smoothly.

WARNING

Test the throttle lever operation each time before starting the engine. The lever must return to its original position once released. Otherwise, do not start engine.

- Check operation of tether and engine cutout switches, ignition switch, headlamp switch (HI-LO), taillight, brake light and pilot lamps.
- Verify that skis and steering operate freely. Check corresponding action of skis versus handlebar.
- Check fuel and oil for levels and leaks. Replenish as necessary and see an authorized SKI-DOO dealer in case of any leaks.
- Verify that air filter(s) is free of snow, if so equipped.

- All storage compartments must be properly latched and they must not contain any heavy or breakable objects. Hood must be also properly latched.

WARNING

All adjustable features should be positioned at optimal setting. Securely tighten all adjustment locks.

- Make certain your snowmobile is pointed away from people or objects before you start it. No one is to be standing in front of or in back of the snowmobile.
- Be warmly dressed with clothing designed for snowmobiling.

ITEM	OPERATION	✓
Body including seat, footrests, lights, controls and instruments	Check that there is no snow or ice.	
Track and idler wheels	Check for free movement.	
Brake lever	Check proper action.	
Parking device	Check proper action.	
Throttle lever	Check proper action.	
Switches and lights	Check proper action. Tether cord must be attached to driver clothing eyelet.	
Skis and steering	Check for free movement and proper action.	
Fuel and oil	Check for proper level and leaks.	
Air filter	Check that there is no snow or ice.	
Adjustable features	Check for optimal adjustment and securely tightened adjustment locks.	
Storage compartment	Check for proper latching and no heavy or breakable objects.	
Vehicle vicinity	Snowmobile must be pointed away from people or objects. No one is to be standing in front of or in back of the snowmobile.	
Clothing	Be warmly dressed with clothing designed for snowmobiling.	

Starting the Engine

General

IMPORTANT: On electrical starter equipped models:

- if the low battery voltage pilot lamp is on, battery would not have enough power to start the engine. In this case, use the manual rewind starter
- if the battery is dead, engine cannot be started. Have the battery recharged or replaced.

Recheck throttle control lever operation.

Ensure that the engine cutout switch is in the ON position.

Ensure that the tether cord cap is in position and that the cord is attached to your clothing eyelet.

WARNING

Never depress throttle when starting engine.

Initial Cold Starting and Warm Engine Starting

General

Push on the START/RER button once to energize the ECM and gauges, this will ease the starting.

NOTE: If the battery voltage is low or dead, the ECM and gauges cannot be energize before starting.

Manual Starting

Grab manual starter handle, pull handle slowly until a resistance is felt then, hold handle firmly and pull vigorously to start engine.

WARNING

Never depress throttle when starting engine.

IMPORTANT: If the battery voltage is low or dead it is still possible to start the engine, in this case, pull on the rewind starter to the full length of the rope.

Electrical Starting

Push the START/RER button.

Release START/RER button when engine has started.

IMPORTANT: If the low battery voltage pilot lamp is on, battery would not have enough power to start the engine. In this case, use the manual rewind starter.

If the battery is dead, engine cannot be started. Have the battery recharged or replaced.

WARNING

Never depress throttle when starting engine.

CAUTION: Do not use electric starter for more than 10 seconds. A rest period should be observed between the cranking cycles to let electric starter cool down. Using electric starter when engine has started could damage electric starter mechanism.

Vehicle Warm-Up

Before every ride, vehicle has to be warmed up as follows.

Snowmobile must be securely supported by the rear bumper using a wide-base snowmobile mechanical stand. Track must be 100 mm (4 in) off the ground.

Attach tether cord to operator's clothing eyelet.

Start engine and allow it to warm up two or three minutes at idle speed.

Release parking brake.

WARNING

Make sure wide-base snowmobile mechanical stand is stable. Stay clear of the front of vehicle and the track. Do not use too much throttle during warm-up or when track is free-hanging.

Apply throttle until drive pulley engages. Let track rotate at low speed for several turns. The lower the vehicle temperature is, the longer vehicle warm-up should be.

Shut-off the engine and remove the wide-base snowmobile mechanical stand.

Skis may be frozen on the ground. Grab both skis one at a time by their loops and lift their front end slightly off the ground.

After restarting engine, the vehicle can be driven at low speed for the first 2 or 3 minutes of riding. After that, it may be driven up to the legal speed limit as per normal safety practices.

Shutting Off the Engine

Release throttle lever and wait until engine has returned to idle speed.

Shut off the engine using engine cut-out switch or tether cut-out switch.

WARNING

Always remove tether cord cap when vehicle is not in operation in order to prevent accidental engine starting or to avoid unauthorized use by children or others or theft.

Post-Operation Care

Shut off the engine. Install rear of vehicle on a wide-base snowmobile mechanical stand.

Remove snow and ice from rear suspension, track, front suspension, steering, mechanism and skis.

Protect vehicle with a snowmobile cover.

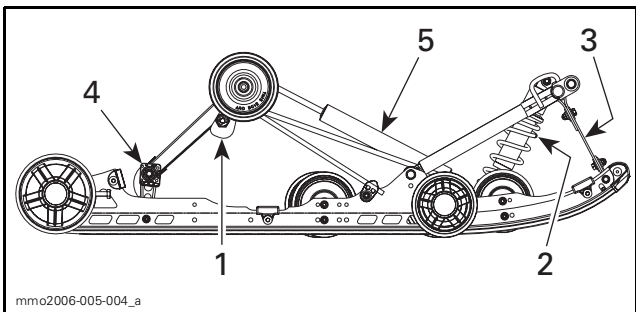
Adjustable Suspensions

Snowmobile handling and comfort depend upon suspension adjustments.

For factory recommended adjustments refer to decal on belt guard. It describes settings for optimum comfort according to load for your SKI-DOO model.

Choice of suspension adjustments vary with carrying load, driver's weight, personal preference, riding speed and field condition.

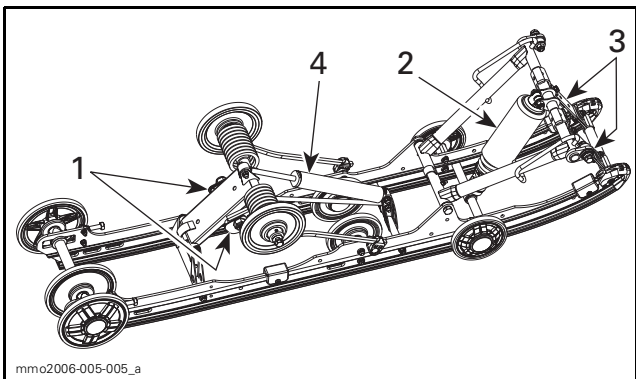
NOTE: Some adjustments may not apply to your snowmobile. Use special keys supplied in tool kit.



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TYPICAL — SC4 SUSPENSION

1. Rear springs adjustable cams for comfort and ride height
2. Center spring for steering behavior
3. Stopper strap for snowmobile weight transfer
4. Coupling blocks — Handling
5. Rear shock motion ratio — Damping strength (not adjustable on all models)
6. Front suspension springs for handling (not shown)



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TYPICAL — SC MOUNTAIN SUSPENSION

1. Rear springs adjustable cams for comfort and ride height
2. Center spring for steering behavior
3. Stopper strap for snowmobile weight transfer
4. Rear shock motion ratio — Damping strength (not adjustable on all models)
5. Front suspension springs for handling (not shown)

Following are guidelines to fine-tune suspension.

The best way to set up the suspension, is to start from factory settings, then customize each adjustment one at a time. Adjustments 2 through 6 are interrelated. It may be necessary to readjust center spring after adjusting front springs for instance. Test run the snowmobile under the same conditions; trail, speed, snow, driver riding position, etc. Change one adjustment and retest. Proceed methodically until you are satisfied.

WARNING

Always remove DESS tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail. Always lift the front of vehicle off the ground with a suitable lifting device before adjusting ski suspension. Lift the rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel before rear suspension adjustment.

WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device to avoid risk of strain injuries. Always make sure the lifting device is stable and secure before proceeding to adjust the suspension components.

CAUTION: Whenever adjusting rear suspension, check track tension and adjust as necessary.

Slight suspension bottoming occurring under the worst riding conditions indicates a good choice of spring preload.

NOTE: Some models may come from factory equipped with Take/Apart (T/A) shocks. These can be rebuilt or recalibrated. See an authorized SKI-DOO dealer.

1. Rear Springs — Comfort and Ride Height

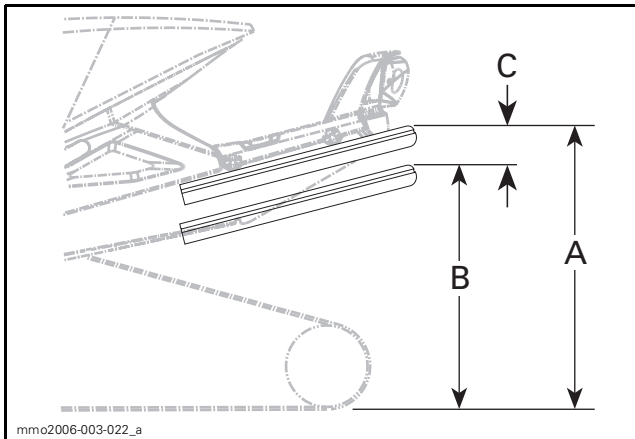
IMPORTANT: Make sure that all objects to be transported are in place in storage compartment and rear rack.

- Grab rear bumper and lift until suspension is fully extended.
- From this point, rear of snowmobile should collapse by 50 to 75 mm (2 to 3 in) when driver and passenger (if so applicable) take place.
- Measure at rear bumper as shown in next illustration.

WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device or have assistance to share lifting stress in order to avoid risk of strain injuries.

Rear Springs Adjustment



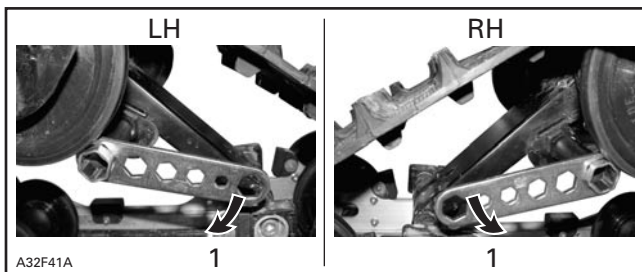
TYPICAL — PROPER ADJUSTMENT

- A. Suspension fully extended
- B. Suspension has collapse with driver, passenger(s) and load added
- C. Distance between dimension A and B, must not exceed 50 to 75 mm (2 to 3 in), see table

REAR SPRINGS ADJUSTMENT		
"C"	CAUSE	SOLUTION
50 to 75 mm (2 to 3 in)	No adjustment required	
More than 75 mm (3 in)	Adjusted too soft	Increase preload
Less than 50 mm (2 in)	Adjusted too hard	Decrease preload

Increase Spring Preload

CAUTION: To increase preload, always turn the left side adjustment cam in a clockwise direction, and the right side cam in a counterclockwise direction. Left and right adjustment cams may be at different settings.

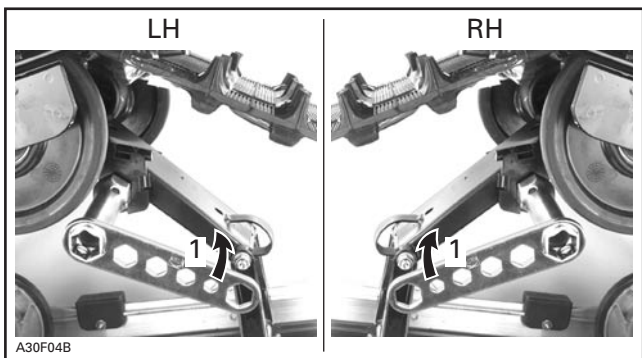


TYPICAL

1. Increase spring preload

Decrease Spring Preload

CAUTION: To decrease preload, always turn the left side adjustment cam in a counterclockwise direction, the right side cam in a clockwise direction. Left and right adjustment cams may be at different settings.



TYPICAL

1. Decrease spring preload

2. Center Spring — Steering Behavior

- Ride at moderate speed on a trail.
- If handlebar is felt too easy or too hard to turn, adjust center spring accordingly.

WARNING

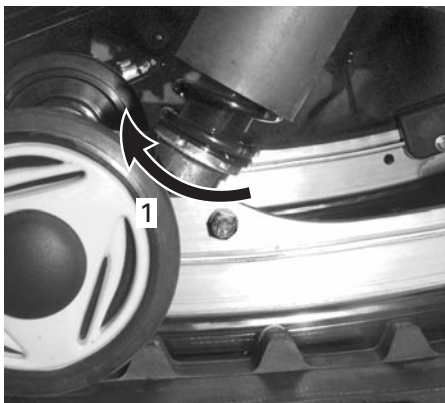
Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove DESS tether cord cap
- lift rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel
- make sure lifting device is stable and secure.

CENTER SPRING ADJUSTMENT

STEERING BEHAVIOR			ADJUSTMENT	
VEHICLE SPEED	HANDLEBAR	STEERING ATTITUDE	PROBLEM	SOLUTION
Moderate	Easy to turn	Neutral	No adjustment required	
	Harder to turn	Oversteering	Adjustment too soft	Increase preload
	Very easy to turn	Understeering	Adjustment too hard	Decrease preload

Preload Adjustment



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TYPICAL — PRELOAD ADJUSTMENT

1. Use adjuster wrench provided in tool kit to increase or decrease preload

3. Stopper Strap — Weight Transfer

- Ride at low speed then fully accelerate.
- Note steering behavior.
- Adjust stopper strap length accordingly.

WARNING

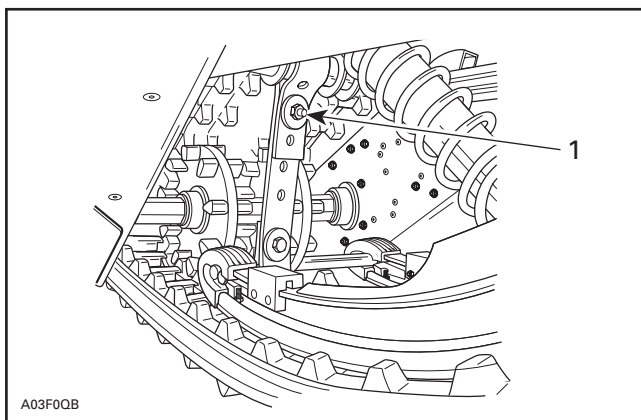
Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove DESS tether cord cap
- lift rear of vehicle off the ground with suitable lifting device
- make sure lifting device is stable and secure.

CAUTION: Whenever stopper strap length is changed, track tension must be readjusted.

STOPPER STRAP — WEIGHT TRANSFER				
WEIGHT TRANSFER			ADJUSTMENTS	
STEERING BEHAVIOR	TRACK	SKIS	PROBLEM	SOLUTION
Comfortable	Good weight transfer	Light pressure	No adjustment required	
Light	Too much weight transfer	Lift off the ground	Strap too long	Reduce strap length
Heavy	Not enough weight transfer	Heavy pressure	Strap too short	Increase strap length

Strap Adjustment



TYPICAL

1. Increase or decrease strap length by bolting to a different hole

4. Coupling Blocks — Handling

SC4 Suspension Only

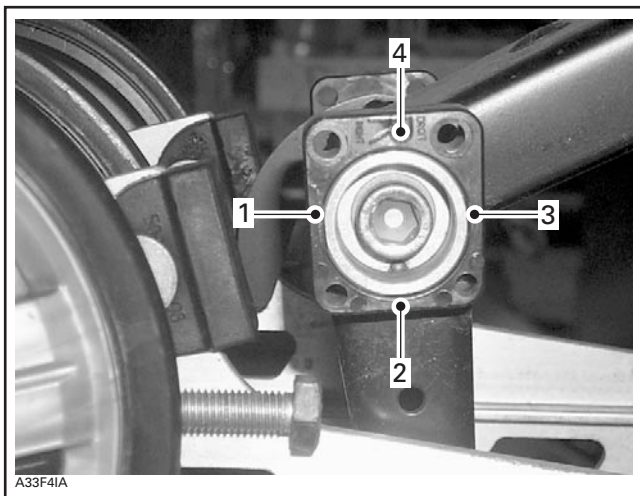
- Ride at moderate speed and check for desired handling.
- If handling requires adjustment, turn both left and right blocks by 90 to the desired position.

NOTE: There are four possible adjustment positions. Side of block with the desired adjustment number must be facing the rubber stopper.

WARNING

Both blocks must be set at the same position. Otherwise vehicle behavior may be unpredictable and suspension may become warped.

Use tool provided in tool bag to adjust coupling blocks.



COUPLING BLOCK — RIGHT SIDE VIEW ("R" — RIGHT EMBOSSED ON BLOCK)

1. Position 1 (minimum)
2. Position 2 (minimum/intermediate)
3. Position 3 (intermediate/maximum)
4. Position 4 (maximum)

5. Rear Shock Motion Ratio — Damping Strength

Mach Z X and MX Z Renegade X Only

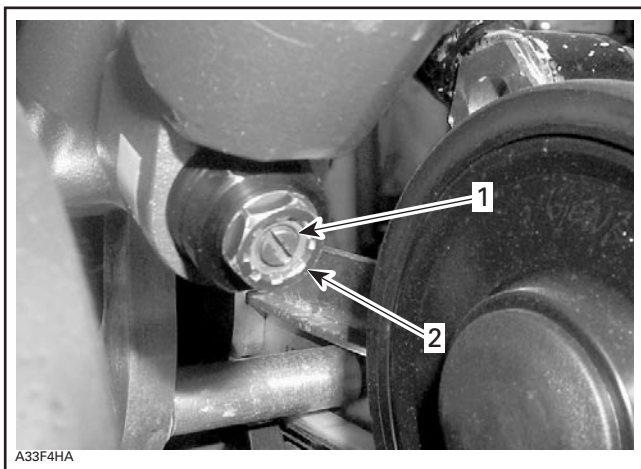
Rear shock on the above mentioned models feature 2 adjustments.

Low Speed Compression Adjuster

The low speed adjuster modifies the damping force for small suspension velocities. This adjuster has 5 turns of adjustment. Use a flat screwdriver to adjust it. Turning it clockwise increases shock damping action (stiffer) for these low compression speeds.

High Speed Compression Adjuster

The High speed adjuster modifies the damping force for high suspension velocities. Use a 17 mm wrench to adjust it. Turning it clockwise increases shock damping action (stiffer) for these high compression speeds.



1. Low speed compression adjuster (flat screwdriver)
2. High speed compression adjuster (17 mm wrench)

6. Front Suspension Springs — Handling

- Ride at moderate speed and check for proper handling.
- Adjust front springs accordingly.

WARNING

Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove DESS tether cord cap
- lift rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel
- make sure lifting device is stable and secure.

WARNING

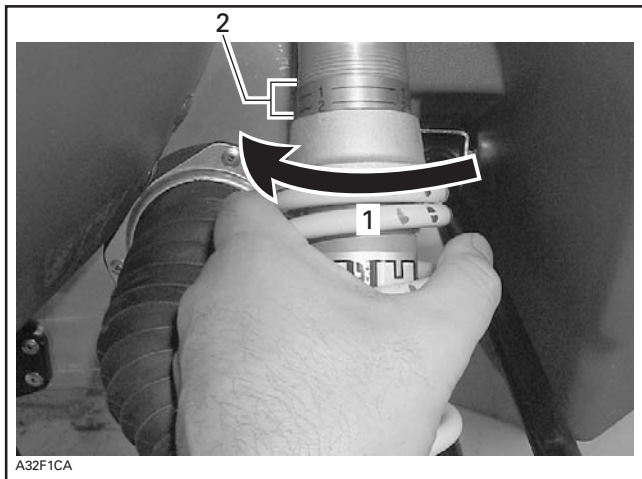
Always adjust both front springs to same position.

FRONT SPRINGS ADJUSTMENT

HANDLING	STEERING	PROBLEM	SOLUTION
Good	Comfortable	No adjustment required	
Bad	Too easy to turn	Adjustment too soft	Increase spring preload
Bad	Hard to turn	Adjustment too hard	Decrease spring preload

Preload Adjustment

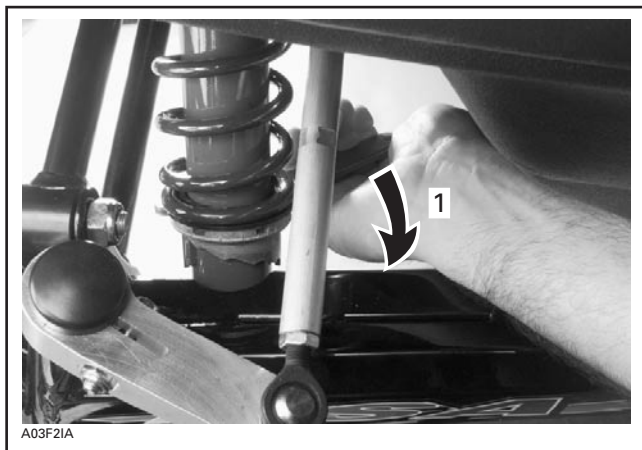
Screw Type Shock



1. Increase or decrease spring preload
2. Position number

CAUTION: Make sure that both front springs are still preloaded when front of vehicle is off the ground.

Cam Type Shock



1. *Increase or decrease spring preload*

PROBLEM	CORRECTIVE MEASURES
Front suspension wandering	<ul style="list-style-type: none"> – Check ski alignment and camber angle adjustment. See an authorized SKI-DOO dealer. – Reduce ski ground pressure. • Reduce front suspension spring preload. • Increase center spring preload. • Reduce rear spring preload.
Snowmobile seems unstable and seems to pivot around its center	<ul style="list-style-type: none"> – Reduce rear suspension front arm pressure. • Reduce center spring preload. • Increase rear spring preload. • Increase front suspension spring preload.
Steering feels too heavy	<ul style="list-style-type: none"> – Reduce ski ground pressure. • Reduce front suspension spring preload. • Increase center spring preload.
Rear of snowmobile seems too stiff	<ul style="list-style-type: none"> – Reduce rear spring preload.
Rear of snowmobile seems too soft	<ul style="list-style-type: none"> – Increase rear spring preload.
Rear suspension front shock absorber is frequently bottoming	<ul style="list-style-type: none"> – Lengthen stopper strap. – Increase center spring preload.
Track spins too much at start	<ul style="list-style-type: none"> – Lengthen stopper strap. – Move thicker part of coupling block downward.

In Deep Snow

When operating the snowmobile in deep snow, it may be necessary to vary stopper strap length and/or riding position, to change the angle at which the track rides on the snow. Operator's familiarity with the various adjustments as well as snow conditions will dictate the most efficient combination.

SPECIAL OPERATIONS

Riding at High Altitudes

If you ride at altitudes above 600 m (2000 ft), your snowmobile should be modified. Refer to an authorized SKI-DOO dealer. Summit models are factory calibrated for high altitude. These models must be converted for sea level utilization.

CAUTION: Do not change original factory calibration if snowmobile is used below 600 m (2000 ft) (except Summit models).

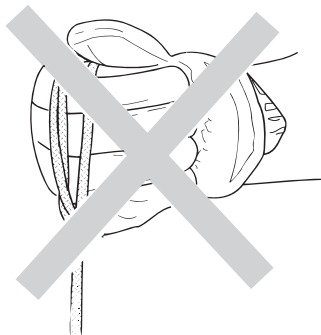
Emergency Starting

The engine can be started with the emergency starter rope supplied with the tool kit.

Remove belt guard.

WARNING

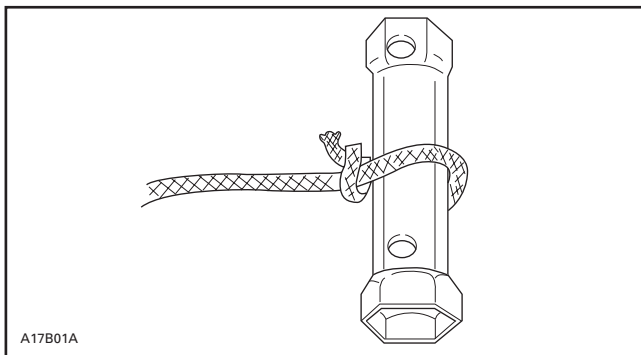
Do not wind starting rope around your hand. Hold rope by the handle only. Do not start the snowmobile by the drive pulley unless it is a true emergency situation. Have the snowmobile repaired as soon as possible.



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Attach one end of emergency rope to a rewind handle.

NOTE: The spark plug socket can be used as an emergency handle.



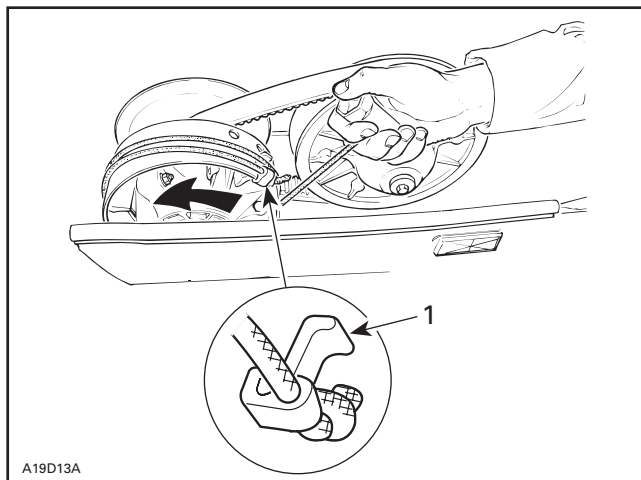
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TYPICAL

Attach the other end of emergency rope to the starter clip supplied in the tool kit.

Hook up clip on drive pulley.

Wind the rope tightly around drive pulley in a counterclockwise direction (back to front). When pulled, pulley must rotate counterclockwise.



A19D13A

TYPICAL

1. Clip

Pull the rope using a sharp, crisp pull so the rope comes free of the drive pulley.

Start engine as per usual manual starting.

WARNING

When starting the snowmobile in an emergency situation, using drive pulley, do not reinstall the belt guard and return slowly to have snowmobile repaired.

Towing an Accessory

Always use a rigid towbar to tow an accessory. Any towed accessory should have reflectors on both sides and at the rear. Check local laws for brake lights requirements.

WARNING

Never tow an accessory with a rope. Always use a rigid towbar. Using a rope would result in a collision between the object and the snowmobile and possibly in a tip over in case of a rapid deceleration or on a downward slope.

Towing Another Snowmobile

If a snowmobile is disabled and must be towed use a rigid towbar, remove the drive belt and tow at moderate speed.

CAUTION: Always remove the drive belt of the snowmobile that is to be towed to prevent damage to its belt and drive system.

In an emergency situation only, if a rigid towbar is not available, a rope can be used provided you proceed with extra caution.

Remove the drive belt, attach the rope to the ski legs (spindles), have someone sit on the towed snowmobile to activate the brake, and tow at low speed.

CAUTION: In order to prevent damage to the steering system, never attach the tow rope to the ski loops (handles).

WARNING

Never ride at high speed when towing a disabled snowmobile. Proceed slowly with extra caution.

Transporting the Vehicle

Make sure that oil reservoir and fuel tank caps are properly installed.

Tilt bed trailers can easily be equipped with a winch mechanism to afford maximum safety in loading. Simple as it may seem, never drive your snowmobile onto a tilt bed trailer or any other kind of trailer or vehicle. Many serious accidents have resulted from driving up and over a trailer. Anchor your vehicle securely, front and rear, even on short hauls. Be certain all equipment is securely fastened. Cover your snowmobile when trailering to prevent road grime from causing damage.

Be certain your trailer meets state or provincial requirement. Ensure the hitch and safety chains are secure and the brake, turn indicators and clearance lights all function.

Engine Overheating

Engine overheating pilot lamp will light up if engine is too hot.

Reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.

Check for adequate coolant level. See an authorized SKI-DOO dealer.

Fuel Flooded Engine

WARNING

Never depress throttle when starting engine, even if flooded with gas.

Install new spark plugs and restart engine.

Rear Suspension Slider Shoe Sticking

Slider shoes are cooled and lubricated by snow. When riding at moderate or high speed on a thin-snow-covered surface, slider shoes may stick on metallic track guides.

Run snowmobile on a surface covered by snow or drive snowmobile at very slow speed.

Have slider shoes inspected by an authorized SKI-DOO dealer.

TROUBLESHOOTING

Monitoring Beeper Coded Signals

**2 SHORT BEEPS (WHEN ENGINE IS STARTED).
DESS/RER PILOT LAMP ALSO BLINKS.**

- 1. Confirms that proper tether cord cap is installed. Engine can rev above pulley engagement.**

- *Normal condition.*

**1 SHORT BEEP EVERY 1.5 SECONDS (WHEN ENGINE IS STARTED). DESS/RER PILOT LAMP ALSO BLINKS.
ENGINE CANNOT REACH PULLEY ENGAGEMENT SPEED.
VEHICLE CANNOT BE DRIVEN.**

- 1. Bad DESS system connection.**

- *Reinstall tether cord cap correctly over post.*

- 2. Defective tether cord cap.**

- *Use another programmed tether cord cap.*

- 3. Dirt or snow in tether cord cap.**

- *Clean tether cord cap.*

- 4. Defective DESS post.**

- *Replace DESS post.*

1 LONG BEEP PER SECOND.

- 1. Reverse is selected.**

- *Vehicle can be driven in reverse.*

3 SHORT BEEPS PER SECOND. DESS/RER PILOT LAMP ALSO BLINKS.

**ENGINE CANNOT REACH PULLEY ENGAGEMENT SPEED.
VEHICLE CANNOT BE DRIVEN.**

- 1. Wrong tether cord cap is installed.**

- *Install proper tether cord cap. Program key into electronic module.*

3 SHORT BEEPS PER SECOND. ENGINE OVERHEATING PILOT LAMP ALSO BLINKS.

- 1. Engine is overheating.**

- *Stop engine immediately and allow to cool. Check cooling system.*

3 SHORT BEEPS PER SECOND (BEFORE ENGINE IS STARTED).

1. Low battery voltage.

- *Check battery and charging system.*

4 SHORT BEEPS EVERY 2 MINUTES. OIL PILOT LAMP ALSO LIGHTS UP.

1. Low oil level.

- *Check oil level and replenish as soon as possible.*

3 SHORT BEEPS PER SECOND. BATTERY PILOT LAMP ALSO LIGHTS UP.

1. No charging.

- *Check battery and charging system.*

1 SHORT BEEPS EVERY 15 MINUTES.

1. Too high battery voltage.

- *Check battery and charging system.*

ENGINE IS CRANKED BUT FAILS TO START.

1. Ignition switch or engine cut-out switch in OFF position or tether cord cap away from post.

- *Place engine cut-out switch in the ON position and install tether cord cap on post.*

2. Flooded engine (spark plug wet when removed).

- *Start engine following usual starting procedure. If engine continues to flood, see an authorized SKI-DOO dealer.*
- *A special mode can be activated to prevent fuel injection and ignition while cranking. With tether cord cap on its post and engine cut-out switch in the OFF position, press completely and HOLD throttle lever. Crank engine several times. Release throttle lever and place engine cut-out switch in the ON position. Start engine following usual starting procedure. If the engine does not start, it may be necessary to replace the spark plugs. If engine continues to flood, see an authorized SKI-DOO dealer.*

3. No fuel to the engine (spark plug dry when removed).

- *Check fuel tank level; turn fuel valve on if applicable; check fuel filter; replace if clogged; check condition of fuel and impulse lines and their connections. A failure of the fuel pump or carburetor has occurred. Contact an authorized SKI-DOO dealer.*

ENGINE IS CRANKED BUT FAILS TO START. (cont'd)

4. Spark plug/ignition (no spark).

- *Remove spark plug(s) then reconnect to spark cap. Check that engine cut-out switch is at the ON position and the tether cut-out cord cap is snapped over the receptacle.*
- *Start engine with spark plug(s) grounded to engine away from spark plug hole. If no spark appears, replace spark plug. If trouble persists, contact an authorized SKI-DOO dealer.*

5. Engine compression.

- *As the engine is pulled over with the rewind starter, "cycles" of resistance should be felt as piston goes past top dead center (each piston on multi-cylinder engines).*
- *If no pulsating resistance is felt, it suggests a major loss of compression. Contact an authorized SKI-DOO dealer.*

ENGINE LACKS ACCELERATION OR POWER.

1. DESS did not read tether cord cap code. DESS pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.

- *Properly install.*

2. DESS has read a different code than the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.

- *Install a tether cord cap for which this snowmobile was programmed.*

3. Fouled or defective spark plug.

- *Check item 5 of ENGINE TURNS OVER BUT FAILS TO START.*

4. Lack of fuel to engine.

- *Check item 4 of ENGINE TURNS OVER BUT FAILS TO START.*

5. Drive belt worn too thin.

- *If the drive belt has lost more than 3 mm (1/8 in) of its original width, it will affect vehicle performance.*
- *Replace drive belt.*

6. Drive and driven pulleys require servicing.

- *Contact an authorized SKI-DOO dealer.*

7. Engine is overheating.

- *Check coolant level, pressure cap and for air locks in cooling system.*

8. Engine cannot reach full RPM and EMS pilot lamp blinks.

- *Engine is under a protection mode, contact an authorized SKI-DOO dealer.*

ENGINE BACKFIRES.

- 1. DESS did not read tether cord cap code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.**
 - *Properly install.*
- 2. DESS has read a different code than the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.**
 - *Install a tether cord cap for which this snowmobile was programmed.*
- 3. Faulty spark plug (carbon accumulation).**
 - *See item 5 of ENGINE TURNS OVER BUT FAILS TO START.*
- 4. Engine is running too hot.**
 - *See item 6 of ENGINE LACKS ACCELERATION OR POWER.*
- 5. Ignition timing is incorrect or there is an ignition system failure.**
 - *Contact an authorized SKI-DOO dealer.*

ENGINE MISFIRES.

- 1. DESS did not read tether cord cap code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.**
 - *Properly install.*
- 2. DESS has read a different code than the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.**
 - *Install a tether cord cap for which this snowmobile was programmed.*
- 3. Fouled/defective/worn spark plugs.**
 - *Clean/verify spark plug gap and identification number. Replace as required.*
- 4. Too much oil supplied to engine.**
 - *Improper oil pump adjustment, refer to an authorized SKI-DOO dealer.*
- 5. Water in fuel.**
 - *Drain fuel system and refill with fresh fuel.*

SNOWMOBILE CANNOT REACH FULL SPEED.

- 1. DESS did not read tether cord cap code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.**
 - *Properly install.*
- 2. DESS has read a different code then the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.**
 - *Install a tether cord cap for which this snowmobile was programmed.*
- 3. Drive belt.**
 - *Check item 6 of ENGINE LACKS ACCELERATION OR POWER.*
- 4. Incorrect track adjustment.**
 - *See MAINTENANCE and/or an authorized SKI-DOO dealer for proper alignment and tension adjustments.*
- 5. Pulleys misaligned.**
 - *Contact an authorized SKI-DOO dealer.*
- 6. Engine.**
 - *See items 1, 2, 6 and 7 of ENGINE LACKS ACCELERATION OR POWER.*

SPECIFICATIONS

MODEL		MACH Z/MX Z RENEGADE X/ SUMMIT
		995 SDI
Engine System		
Engine type		Rotax 1000 SDI, liquid cooled w/Reed valve, eR.A.V.E.
Cylinders		2
Displacement	cc (in ³)	994.47 (60.87)
Bore	mm (in)	88 (3.46)
Stroke	mm (in)	82 (3.23)
Maximum engine speed		7900 RPM
Fuel delivery type		Electronic SDI
Exhaust system		Single tuned pipe, baffle muffler
Drive System		
Drive pulley type		TRA V
Driven pulley type		HPV Roller
Engagement	SUMMIT	3500 RPM EUR: 3400
	Others	3000 RPM
Small sprocket number of teeth	MACH Z	29
	RENEGADE X	27 (1.25 in track) 25 (1.75 in track)
	SUMMIT	21 (151 in) EUR: 22 (151 in) 21 (162 in)
Large sprocket number of teeth		49
Drive sprocket number of teeth		9
Brake system		Hydraulic caliper, self adjusting
Track nominal width	SUMMIT	406 mm (16 in)
	Others	381 mm (15 in)

MODEL		MACH Z/MX Z RENEGADE X/ SUMMIT
		995 SDI
Track nominal length	MACH Z	3074 mm (121 in)
	RENEGADE X	3456 mm (136 in)
	SUMMIT	3840 mm (151 in) 4114 mm (162 in)
Track profile height	MACH Z	25.4 mm (1 in) 31.8 mm (1.25 in)
	RENEGADE X	31.8 mm (1.25 in) 44.5 mm (1.75 in)
	SUMMIT	57.2 mm (2.25 in) Highmark 63.5 mm (2.50 in) Highmark X
Track tension	Deflection	30-35 mm (1-3/16 - 1-3/8 in)
	Force ⁽¹⁾	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes
Suspension		
Front suspension		R.A.S. (A-Arm/sway bar)
Front suspension max. travel	MACH Z	165.1 mm (6.5 in)
	Others	229 mm (9 in)
Rear suspension	SUMMIT	SC-151/SC-162
	Others	SC-4
Rear suspension max. travel	MACH Z	381 mm (15 in)
	RENEGADE X	406.4 mm (16 in)
	SUMMIT	356 mm (14 in) 151 in 381 mm (15 in) 162 in
Electrical		
Lightning system output		480 Watts @ 6000 RPM
Headlamp bulb HI/LOW beam		2 x 60/55 Watts (H-4)
Spark plug type		NGK BR8ECS ⁽²⁾
Spark plug gap		0.80 ± 0.05 mm (.031 ± .002 in)

MODEL		MACH Z/MX Z RENEGADE X/ SUMMIT
		995 SDI
Vehicle overall length	MACH Z	2930 mm (115.4 in)
	RENEGADE X	3125 mm (123 in)
	SUMMIT	3295 mm (129.7 in) 151 in 3425 mm (134.8 in) 162 in
Vehicle overall width	SUMMIT	1143 to 1195 mm (45 to 47 in)
	Others	1217 mm (47.9 in)
Vehicle overall height	SUMMIT	1125 mm (44.3 in)
	Others	1046 mm (41.2 in)
Official dry weight	MACH Z	240 kg (529 lb)
	RENEGADE X	247 kg (544 lb)
	SUMMIT HIGHMARK	249 kg (549 lb) 151 in 252 kg (554 lb) 162 in
	SUMMIT HIGHMARK X	247 kg (544 lb) 151 in 249 kg (549 lb) 162 in
Ski stance	SUMMIT	1118 to 1170 mm (44 to 46 in)
	Others	1195 mm (47 in)
Ski overall length		1066 mm (42 in)
Ski width	SUMMIT	175 mm (6.9 in)
	Others	145 mm (5.7 in)
Liquids		
Recommended fuel type		Premium Unleaded
Minimum octane	Inside North America	91 (RON + MON)/2
	Outside North America	95 RON
Recommended oil (engine)		XP-S 2-stroke synthetic blend or XP-S synthetic 2-stroke oil

MODEL		MACH Z/MX Z RENEGADE X/ SUMMIT
		995 SDI
Brake system fluid		SRF (DOT 4) or GTLMA (DOT 4)
Oil type (chaincase/transmission)		XP-S synthetic chaincase oil
Coolant	Mixture	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use coolant specifically designed for aluminum engines.
	Premix	(P/N 219 700 362) 12 x 1 L
Capacities		
Fuel tank	L (U.S. gal)	40 (10.6)
Oil tank	L (U.S. oz)	3.7 (125)
Coolant capacity	121 in	6.4 L (216 U.S. oz)
	136 in	6.75 L (228 U.S. oz)
	151 in	7.3 L (247 U.S. oz)
	162 in	7.4 L (250 U.S. oz)
<p>(1) Measure gap between slider shoe and bottom inside track when exerting a downward pull to the track.</p> <p>(2) CAUTION: Do not attempt to adjust gap on spark plug BR8ECS.</p>		

MAINTENANCE INFORMATION

PERIODIC MAINTENANCE CHART

WARNING

It is recommended that the assistance of an authorized SKI-DOO dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must be cold and not running. Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

WARNING

Observe WARNINGS and CAUTIONS mentioned throughout this guide which are relevant to the item being checked. When component conditions seem less than satisfactory, replace with genuine BRP parts or approved equivalents.

Some items may not apply to your particular model. Refer to *MAINTENANCE* in *SHOP MANUAL* for more details.

A: ADJUST
 C: CLEAN
 I: INSPECT
 L: LUBRICATE
 R: REPLACE
 T: PROCEED WITH TASK

*: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER

*10-HOUR OR 500 KM (300 mi)

WEEKLY OR EVERY 240 KM (150 mi)

MONTHLY OR EVERY 800 KM (500 mi)

ONCE A YEAR OR EVERY 3200 KM (2000 mi)

EVERY 6000 KM (3700 mi)

*STORAGE

*PRESEASON

PART/TASK

LEGEND

ENGINE

Rewind starter and rope						I,L,C	I	(3) Emission-related
Engine motor mounts	I			I		I		
Exhaust system ⁽³⁾	I		I			I		
Exhaust manifold screws	I					I	I	
Engine lubrication						T		
Cooling system	I			I			I	
Coolant	I					R		
Crankshaft PTO seal ⁽³⁾						I		
E-RAVE actuator ⁽³⁾	A			A				
Injection oil filter			I			R		
Oil injection pump	A			A			A	

FUEL SYSTEM

Add fuel stabilizer						T		(3) Emission-related
Fuel filter							R	
Fuel lines, fuel rail and connections	I						I	
Throttle cable	I			I			I	
Air filter ⁽³⁾			C				C	

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE T: PROCEED WITH TASK *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)						
	WEEKLY OR EVERY 240 KM (150 mi)						
	MONTHLY OR EVERY 800 KM (500 mi)						
	ONCE A YEAR OR EVERY 3200 KM (2000 mi)						
	EVERY 6000 KM (3700 mi)						
	*STORAGE						
*PRESEASON							
PART/TASK							LEGEND

FUEL SYSTEM (cont'd)

Throttle body ⁽³⁾							C	(3) Emission-related
Intake system ⁽³⁾							I,C	

DRIVE SYSTEM

Drive belt	I	I					I	(2) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles) (4) Summit models ONLY
Drive and driven pulleys	I		I	C		I	C	
Tightening torque of drive pulley screw	I			I			I	
Tightening torque of ring gear screws							I	
Brake fluid	I	I				R	I	
Drive pulley ramp and roller				I			I	
Brake hose, pads and disk	I	I					I	
Drive chain tension	A ⁽⁴⁾		A ⁽⁴⁾			I		
Countershaft lubrication ⁽²⁾	T		T			T		
Chaincase oil	I		I			R	I	
Drive axle end bearing ⁽²⁾	L		L			L		

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE T: PROCEED WITH TASK *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)						
	WEEKLY OR EVERY 240 KM (150 mi)						
	MONTHLY OR EVERY 800 KM (500 mi)						
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	EVERY 6000 KM (3700 mi)						
	*STORAGE						
*PRESEASON							
PART/TASK	LEGEND						

DRIVE SYSTEM (cont'd)

Track	I		I			I	
Track tension and alignment	A	AS REQUIRED					

STEERING/FRONT SUSPENSION

Steering and front suspension mechanism ⁽²⁾	I,L		I	L		I,L	
Wear and condition of skis and runners	I	I				I	
SUSPENSION							
Suspension adjustments	A	AS REQUIRED					
Suspension ⁽²⁾	I		I,L			I,L	
Suspension stopper strap				I		I	

⁽²⁾ Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles)

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE T: PROCEED WITH TASK *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)						
	WEEKLY OR EVERY 240 KM (150 mi)						
	MONTHLY OR EVERY 800 KM (500 mi)						
	ONCE A YEAR OR EVERY 3200 KM (2000 mi)						
	EVERY 6000 KM (3700 mi)						
	*STORAGE						
*PRESEASON							
PART/TASK				LEGEND			

ELECTRICAL SYSTEM

EMS fault codes ⁽³⁾	I				I			(1) Before installing new spark plugs at pre-season preparation, it is suggested to burn excess storage oil by starting the engine with the old spark plugs. Only perform this operation in a well ventilated area (3) Emission-related
TPS closed throttle reset	T							
Spark plugs ⁽¹⁾⁽³⁾	I		I				R	
Battery (if so equipped)	I		I			I	I	
Wiring harnesses, cables and lines	I		I			I		
Operation of lighting system (hi/lo beam, brake light, etc.), test operation of engine cut-out switch and tether cut-out switch	I	I				I		

VEHICLE

Headlamp beam aiming				A			A	
Rags in air intake and exhaust system						T	T	
Engine compartment	C		C			C		
Vehicle cleaning and protection	C		C			C		

ENGINE SYSTEM

Air Filter Cleaning

Check that the air filter is clean and dry, ensure to properly reinstall the filter.

CAUTION: Snowmobile engines have been calibrated with the filters installed. Operating the snowmobile without them may cause engine damage.

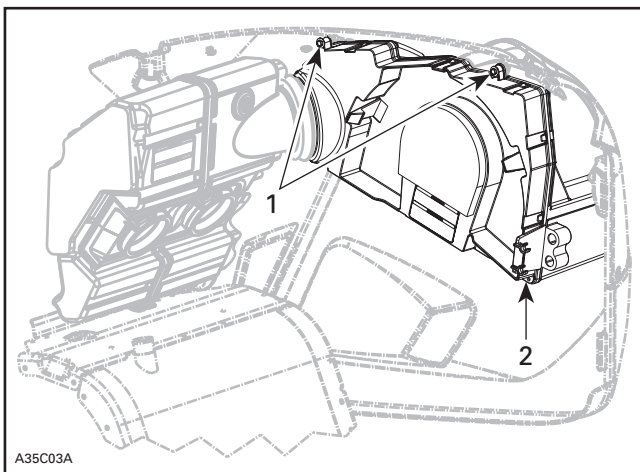
Removal

Open LH side panel.

Unplug air pressure sensor connector.

Remove screws retaining air intake silencer to LH side panel.

Remove air intake silencer (body side).



1. Remove screws
2. Air intake silencer (body side)

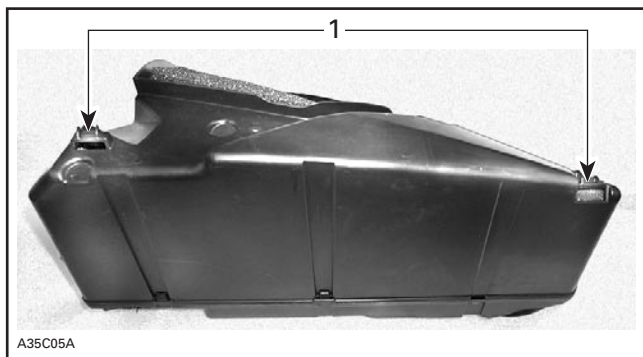


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1. Remove air filter

Installation

Position lower section of air intake silencer on LH side panel using locating holes.

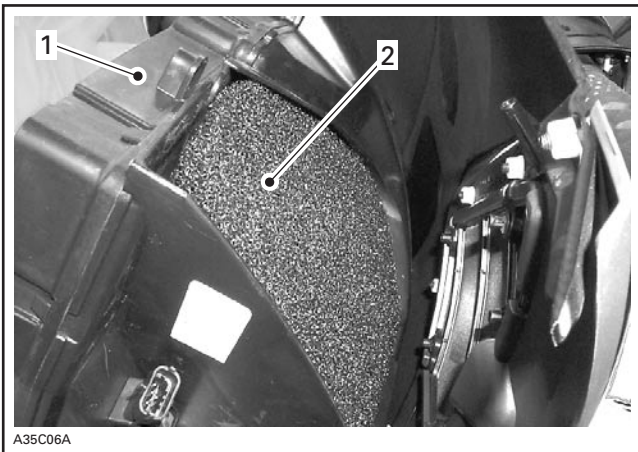


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1. Locating holes

Install air filter on air intake silencer.

NOTE: Make sure air filter stays in place at installation.



1. Air intake silencer (body side)
2. Air filter

Position upper section of air intake silencer on LH side panel and secure with screws.

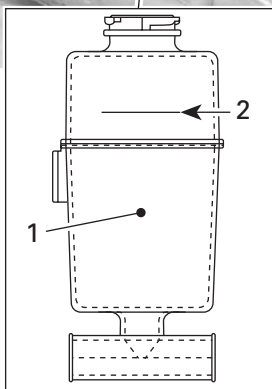
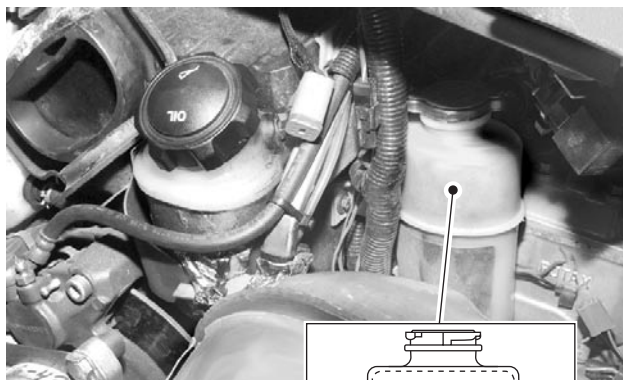
Cooling System

CAUTION: Vehicle must be on a level surface before checking any fluid levels.

Check coolant level at room temperature. Liquid should be at COLD level line (engine cold) of coolant tank.

NOTE: When checking level at low temperature it may be slightly lower than the mark.

If additional coolant is necessary or if entire system has to be refilled, refer to an authorized SKI-DOO dealer.



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TYPICAL

- 1. Coolant tank
- 2. COLD LEVEL line

Exhaust System

The tail pipe of the muffler should be centered with the exit hole in the bottom pan. Exhaust system must be free of rust or leaks. Make sure that gear clamps retaining muffler shells are properly tightened.

The exhaust system is designed to reduce noise and to improve the total performance of the engine. Modification may be in violation of local laws.

CAUTION: If any exhaust system component is removed, modified or damaged, severe engine damage may result.

Oil Injection System

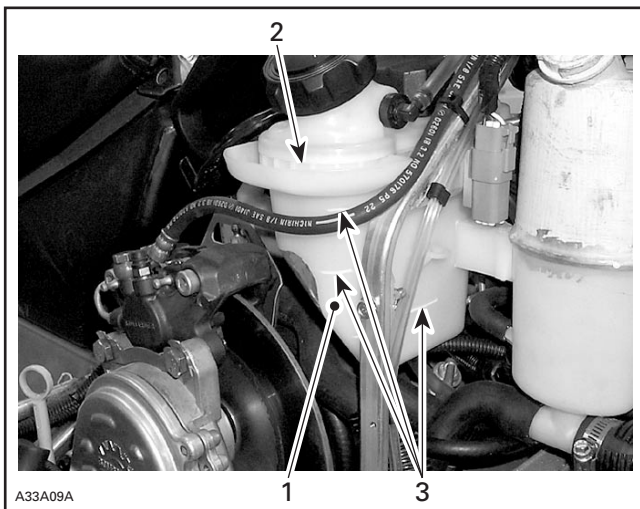
CAUTION: Vehicle must be on a level surface before checking any fluid levels.

Always maintain a sufficient amount of recommended injection oil in the injection oil reservoir.

CAUTION: Never allow oil reservoir to be almost empty. Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OIL.

WARNING

Check level and refill every time you refuel. Be careful not to overfill. Wipe off any spillage. Oil is highly flammable when heated.



TYPICAL

1. Injection oil reservoir
2. Maximum level indicator: 13 mm (1/2 in) from top
3. Level marks (1/4, 1/2, 3/4)

EPA Certified Engines

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any snowmobile SI (spark ignition) engine repair establishments or individual.

Engine Emissions Information

Manufacturer's Responsibility

Beginning with 2004 model year engines, snowmobile manufacturers of snowmobile engines may determine the exhaust emission levels for each engine horsepower family and certify these engines with the United States of America Environmental Protection Agency (EPA). An emissions control information label, showing emission levels and engine specifications, must be placed on each vehicle at the time of manufacture.

Dealer's Responsibility

When performing service on all 2004 and more recent certified SKI-DOO snowmobiles that carry an emissions control information label, adjustments must be kept within published factory specifications.

Replacement or repair of any emission related component must be executed in a manner that maintains emission levels within the prescribed certification standards.

Dealers are not to modify the engine in any manner that would alter the horsepower or allow emission levels to exceed their predetermined factory specifications.

Exceptions include manufacturer's prescribed changes, such as altitude adjustments for example.

Owner Responsibility

The owner/operator is required to have engine maintenance performed to maintain emission levels within prescribed certification standards.

The owner/operator is not to, and should not allow anyone to modify the engine in any manner that would alter the horsepower or allow emissions levels to exceed their predetermined factory specifications.

EPA Emission Regulations

All new 2004 and more recent certified SKI-DOO snowmobiles manufactured by BRP are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new snowmobile engines. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, whenever practicable, returned to the original intent of the design.

The responsibilities listed above are general and in no way a complete listing of the rules and regulations pertaining to the EPA requirements on exhaust emissions for snowmobile products. For more detailed information on this subject, you may contact the following locations:

FOR ALL COURIER SERVICES:

U.S. Environmental Protection Agency
Office of Transportation and Air Quality
1310 L Street NW
Washington D.C. 20005

REGULAR US POSTAL MAIL:

1200 Pennsylvania Ave. NW
Mail Code 6403J
Washington D.C. 20460

INTERNET: <http://www.epa.gov/otaq/>

E-MAIL: otaqpublicweb@epa.gov

DRIVE SYSTEM

Belt Guard Removal and Installation

WARNING

NEVER operate engine:

- without shields and belt guard securely installed
- with hood opened or removed.

NEVER attempt to make adjustments to moving parts while engine is running.

NOTE: Belt guard is purposely made slightly oversize to maintain tension on its pins and retainers preventing undue noise and vibration. It is important that this tension be maintained when reinstalling.

- Remove tether cord cap. Open engine compartment.
- Open retainer to release pin then pull belt guard out of vehicle.

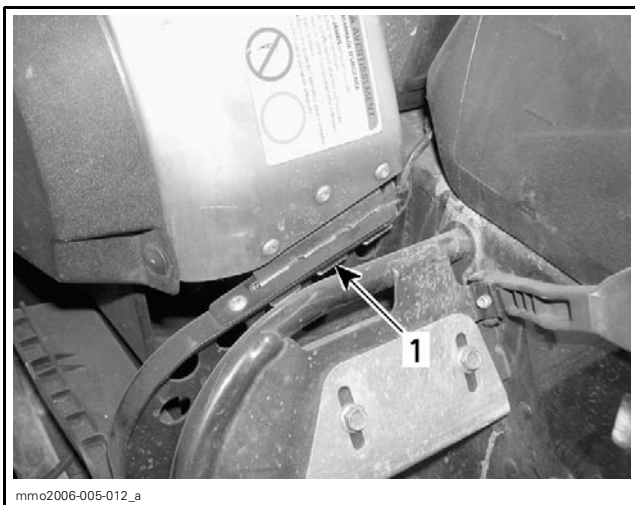


TYPICAL

1. Pin retainer

When reinstalling belt guard, position its cutaway toward front of snowmobile. Refer to decal in belt guard.

Place belt guard slots over tabs first, then snap the other end in retainer.



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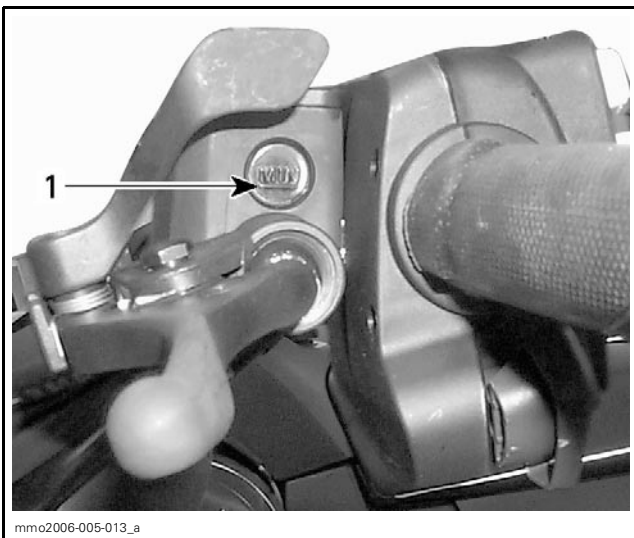
TYPICAL
1. Slots

Brake System

CAUTION: Vehicle must be on a level surface before checking any fluid levels.

Check brake fluid (DOT 4) in reservoir for proper level. Add fluid (DOT 4) as required.

CAUTION: Use only DOT 4 brake fluid from a sealed container. Never use any other types of fluid.



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TYPICAL — BRAKE FLUID RESERVOIR

1. Minimum

Brake Condition

The brake mechanism on your snowmobile is an essential safety device. Keep this mechanism in proper working condition. Above all, do not operate the snowmobile without an effective brake system. Periodically verify the condition/wear of the brake pads.

Brake Adjustment

No adjustment is provided for hydraulic brake. See an authorized SKI-DOO dealer if any problems.

Chaincase Oil Level

CAUTION: Vehicle must be on a level surface before checking any fluid levels.

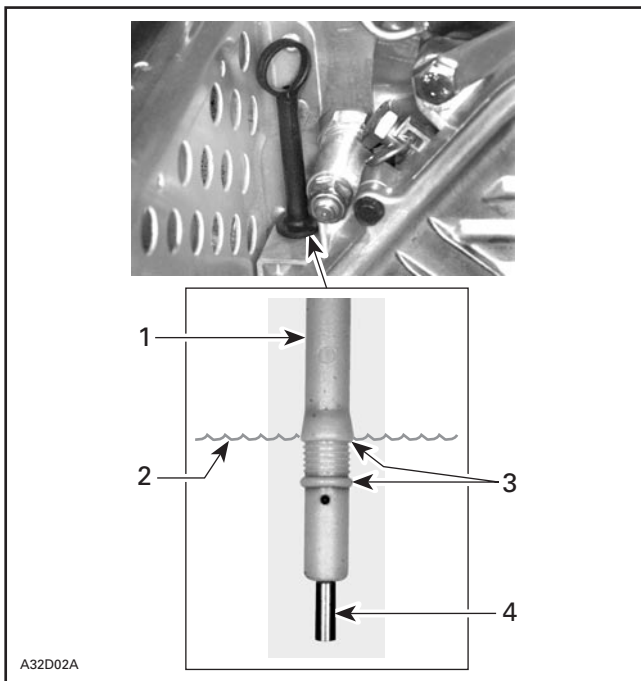
With snowmobile on a level surface, check the oil level by removing dipstick. Oil level must be between lower and upper marks.

NOTE: It is normal to find metallic particles stuck to dipstick magnet. If bigger pieces of metal are found, see an authorized SKI-DOO dealer.

Remove metal particles from magnet.

Refill up to upper mark using recommended oil, refer to *SPECIFICATIONS*.

CAUTION: Do not use other unrecommended types of oil when servicing. Do not mix synthetic oil with other types of oil.



TYPICAL

1. Dipstick
2. Oil level
3. Level between marks
4. Magnet

Drive Belt Condition

Inspect belt for cracks, fraying or abnormal wear (uneven wear, wear on one side, missing cogs, cracked fabric). If abnormal wear is noticed, probable cause could be pulley misalignment, excessive RPM with frozen track, fast starts without warm-up period, burred or rusty sheave, oil on belt or distorted spare belt. Contact an authorized SKI-DOO dealer.

Check the drive belt width. Replace the drive belt if width is less than the minimum width recommended in *SPECIFICATIONS*.

Drive Belt Removal/Installation

WARNING

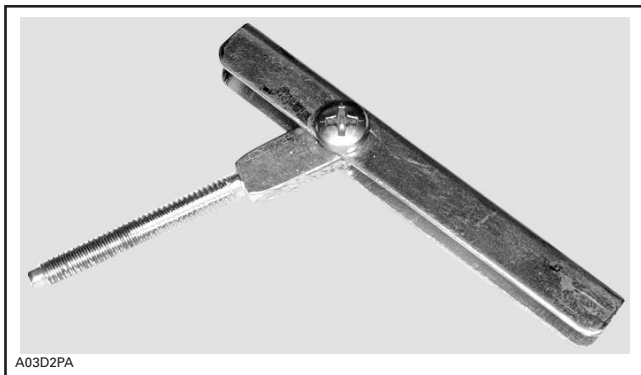
Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

Removal

NOTE: Removal and installation of drive belt is easier when driven pulley is held with brake so that it can not rotate. Apply parking brake, for this purpose.

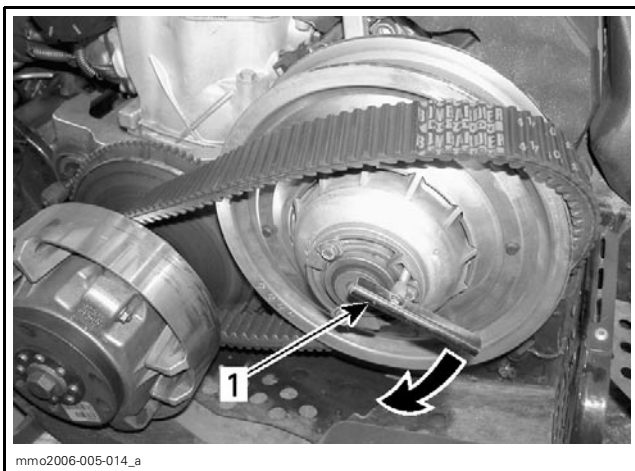
Remove tether cord cap. Open engine compartment and remove belt guard.

Open the driven pulley with the drive belt installer/remover provided in tool bag.



DRIVE BELT INSTALLER/REMOVER

Screw drive belt installer/remover in the free threaded hole and tighten to open the pulley. Remove belt.



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TYPICAL

1. Tighten to open pulley (clockwise)

Slip the belt over the top edge of the sliding half of driven pulley, as shown in previous photo.

Slip belt under drive pulley then, remove it from vehicle.



mmo2006-005-015

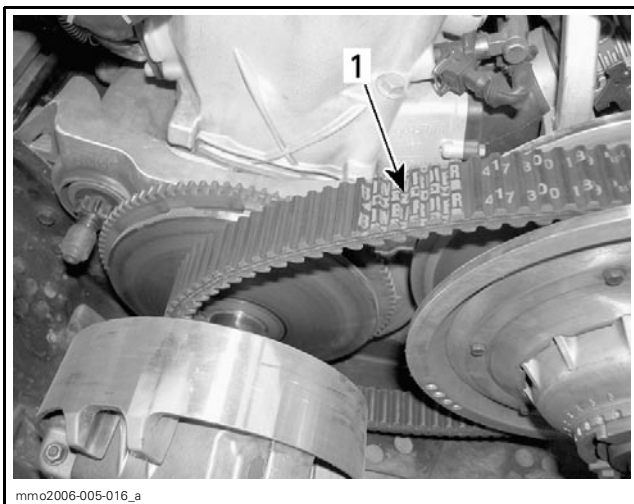
TYPICAL

Clean sheaves of both pulleys using Pulley flange cleaner (P/N 413 711 809).

Installation

To install the drive belt, reverse the removal procedure, however pay attention to the following:

The maximum drive belt life span is obtained when the belt has the proper rotation direction. See arrow on belt.



mmo2006-005-016_a

TYPICAL

1. Arrow pointing front of vehicle

CAUTION: Do not force or use tools to pry the belt into place, as this could cut or break the cords in the belt.

To install the drive belt, first place belt between drive pulley sheaves. Then, between driven pulley sheaves, finishing with bottom.

Remove drive belt installer/remover. Reinstall belt guard.

Close engine compartment.

Drive Pulley Adjustment

WARNING

Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

General

The drive pulley is factory calibrated to transmit maximum engine power at a predefined RPM. Refer to *SPECIFICATIONS* at the end of this guide. Factors such as ambient temperature, altitude or surface condition may vary this critical engine RPM thus affecting snowmobile efficiency.

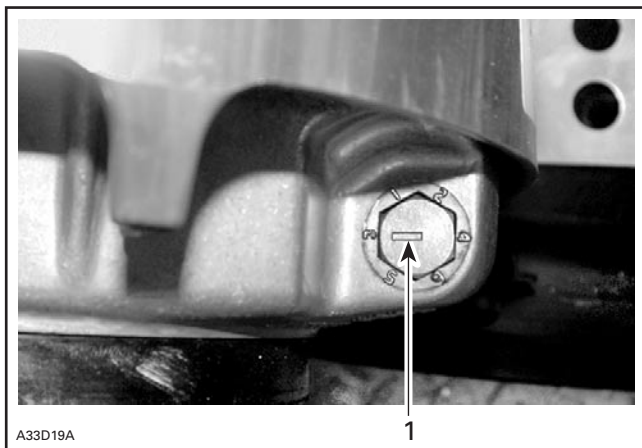
This adjustable drive pulley allows setting maximum engine RPM in the vehicle to maintain maximum power.

Calibration screws should be adjusted so that actual maximum engine RPM in vehicle matches with the maximum horsepower RPM.

NOTE: Use precision digital tachometer for engine RPM adjustment.

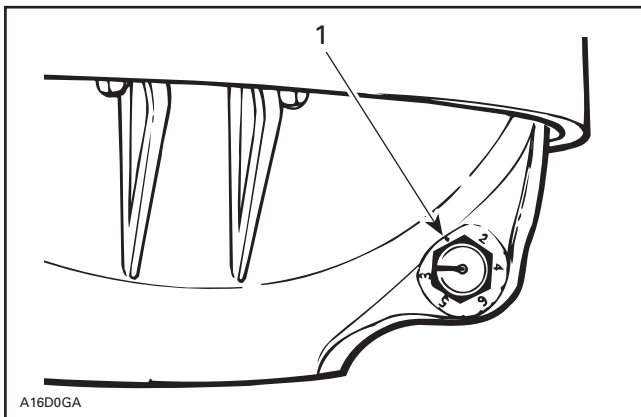
NOTE: The adjustment has an effect on high RPM only.

Calibration screw has a notch on top of its head.



1. *Notch*

There are 6 positions numbered 1 to 6. On TRA drive pulley, note that in position 1 the number is substituted by a dot (due to its location on casting).



TRA DRIVE PULLEY

1. Position 1 (not numbered)

Each position modifies maximum engine RPM by about 200 RPM.

Lower position numbers decrease engine RPM in steps of 200 RPM and higher position numbers increase it in steps of 200 RPM.

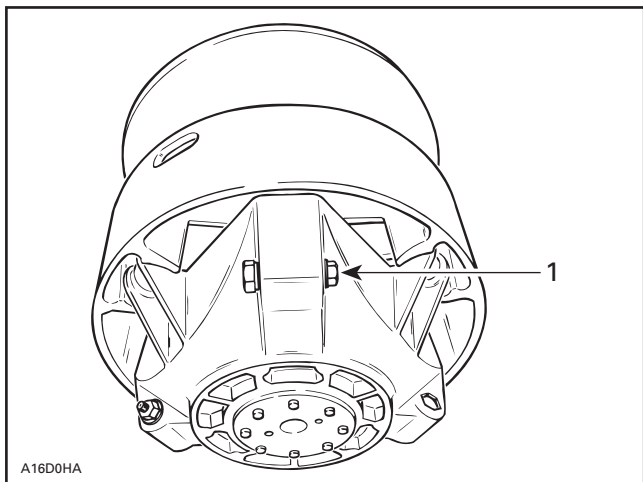
Example:

Calibration screw is set at position 4 and is changed to position 6. So maximum engine RPM is increased by 400 RPM.

Adjustment

Just loosen locking nut enough to pull calibration screw partially out and adjust to desired position. Do not completely remove the locking nut. Torque locking nuts to 10 N•m (89 lbf•in).

CAUTION: Do not completely remove calibration screw otherwise internal washers will fall off. Always adjust all 3 calibration screws and make sure they are all set to the same position.



A16D0HA

TYPICAL

1. Loosen just enough to permit rotating of calibrate screw

⚠ WARNING

NEVER disassemble or modify the drive pulley. Improper assembly or modifications could cause the pulley to explode violently under the stress generated by the high rotational speed. This could lead to serious injury including the possibility of death.

See your SKI-DOO dealer to maintain or service the drive pulley. Improper servicing or maintenance may affect performance and reduce belt life. Always respect maintenance schedules.

⚠ WARNING

NEVER operate engine:

- without shields and belt guard securely installed
- with hood opened or removed.

NEVER attempt to make adjustments to moving parts while engine is running.

Track Condition

WARNING

Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

Remove tether cord cap.

Lift the rear of the snowmobile and support it with a wide-base snowmobile mechanical stand with a rear deflector panel. With the engine off, rotate the track by hand, and inspect condition. If worn or cut, or if track fibers are exposed, or if missing or defective inserts or guides are noted; contact an authorized SKI-DOO dealer.

Studded Tracks

If the track of your snowmobile is studded, **PROCEED WITH A VISUAL INSPECTION OF YOUR TRACK BEFORE EACH USE.**

Look for any defects, such as:

- perforations in the track
- tears in the track (particularly around traction holes)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber
- broken rods
- broken studs
- bent studs
- studs that are torn off the track
- missing track guide(s).

Replace broken or damaged studs immediately. If your track shows signs of deterioration, it must be replaced immediately. When in doubt, ask your dealer. Always follow the inspections schedule given in the periodic maintenance table.

WARNING

Riding with a damaged track or studs could lead to a loss of control, resulting in a risk of serious injury or death.

For a complete information on studs, please refer to the section entitled *TRACTION ENHANCING PRODUCTS* in the *SAFETY INFORMATION* section at the beginning of this Operator's Guide.

Track Tension and Alignment

NOTE: Track tension and alignment are interrelated. Do not adjust one without the other.

WARNING

To prevent serious injury to individuals near the snowmobile:

- NEVER stand behind or near a moving track
- always use a wide-base snowmobile stand with a rear deflector panel
- when the track is raised off the ground, only run it at the lowest possible speed.

Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury.

Tension

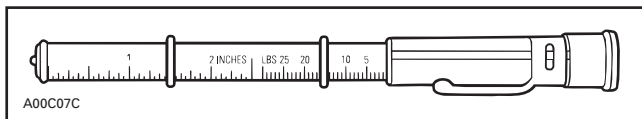
NOTE: Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

Remove the tether cord cap.

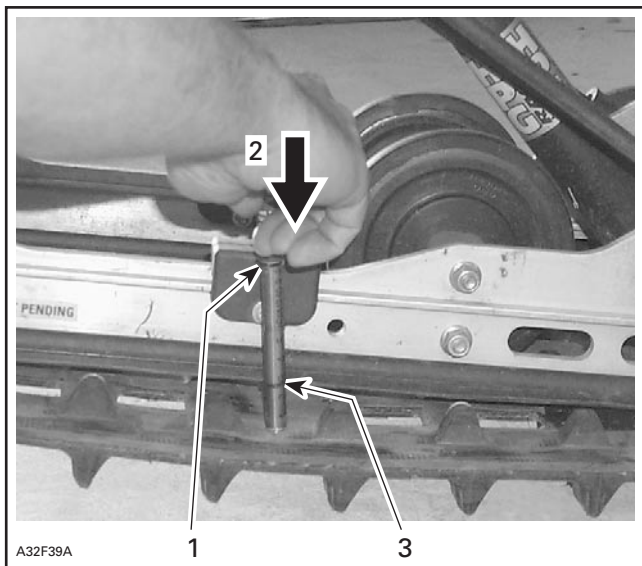
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand.

Allow the suspension to extend normally and check gap halfway between front and rear idler wheels. Measure between slider shoe bottom and inside of track. The gap should be as given in *SPECIFICATIONS* at the end of this guide. If the track tension is too loose, track will have a tendency to thump.

NOTE: A belt tension tester (P/N 414 348 200) may be used to measure deflection as well as force applied.



BELT TENSION TESTER



TYPICAL

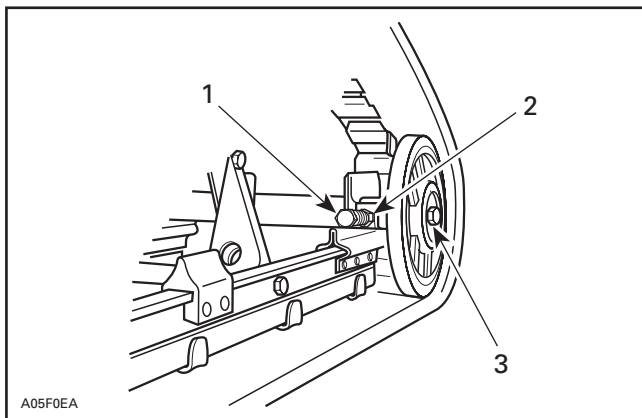
1. Top tool O-ring positioned at 7.3 kg (16 lb)
2. Push on top portion of tool until it contacts the top O-ring
3. Measured track deflection

CAUTION: Too much tension will result in power loss and excessive stresses on suspension components.

To adjust track tension:

- Remove the tether cord cap.
- On some models, remove rear wheel caps.
- Loosen the rear idler wheel retaining screws.
- Loosen the lock nuts (on so equipped models) then turn adjustment screws to adjust.

If correct tension is unattainable, contact an authorized SKI-DOO dealer.



A05F0EA

TYPICAL

1. Adjustment screw
2. Loosen lock nut (on so equipped models)
3. Loosen screw

- Retighten retaining screws and lock nuts (on so equipped models).
- Check track alignment as described below.

Alignment

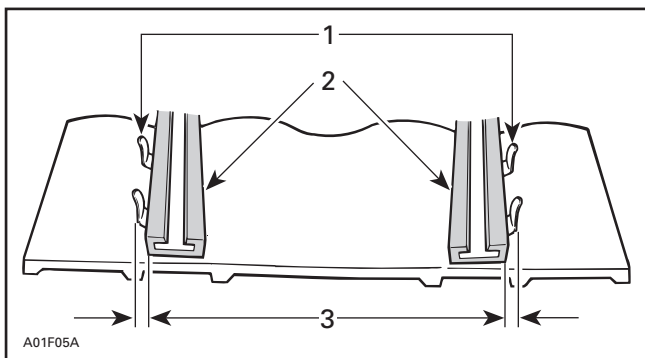
⚠ WARNING

Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Always lift the snowmobile on a wide-base stand with a rear deflector panel. Ensure no one is standing in close proximity to the snowmobile, especially at the rear of the track. Never rotate track at high speed.

Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury.

Start the engine and accelerate slightly so that track barely turns. This must be done in a short period of time (15 to 20 seconds).

Check that the track is well centered; equal distance on both sides between edges of track guides and slider shoes.



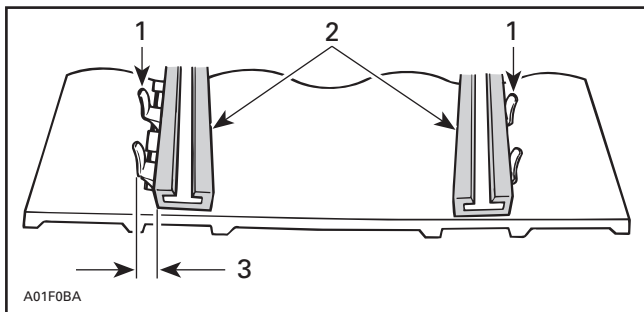
1. Guides
2. Slider shoes
3. Equal distance

To Adjust Track Alignment:

WARNING

Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

- Remove the tether cord cap.
- Loosen rear idler wheel retaining screws.
- Loosen the lock nuts (on so equipped models).
- Tighten the adjustment screw on side where the slider shoe is the farthest from the track insert guides.

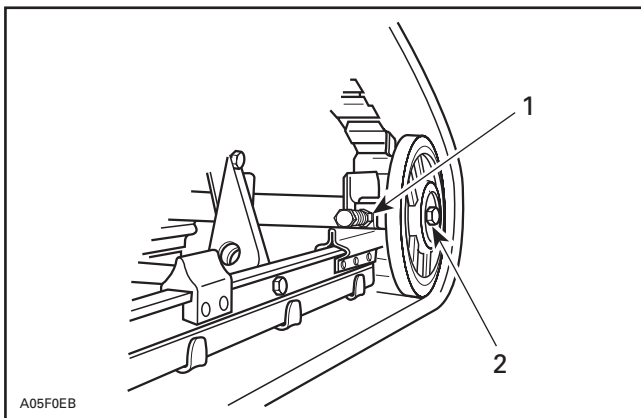


1. Guides
2. Slider shoes
3. Tighten on this side

Tighten lock nuts (some models only) and retaining screws.

WARNING

If lock nuts are not tightened properly, the adjusting screws could loosen causing the track to become extremely loose and, under some operating conditions, allow the idler wheels to climb over the track lugs forcing the track against the tunnel causing the track to "lock". Properly tighten wheel retaining screws, otherwise wheel may come off and cause track to "lock".



A05F0EB

TYPICAL

1. *Retighten (so equipped models)*
2. *Retighten to 48 N•m (35 lbf•ft)*

Restart engine and rotate track slowly to recheck alignment.

Reposition snowmobile on ground.

Install rear wheel caps if so equipped.

ELECTRICAL SYSTEM

Battery Electrolyte

Electric Start Models Only

These vehicles are equipped with a maintenance-free battery. Electrolyte level can not be checked.

WARNING

BLACK negative battery cable must always be disconnected first and connected last.

WARNING

Never charge or boost battery while installed. Battery electrolyte contains sulfuric acid which is corrosive and poisonous. In case of contact with skin, flush with water and call a physician immediately.

WARNING

Should the battery casing be damaged, wear a suitable pair of non-absorbent gloves when removing the battery by hand.

CAUTION: Should any electrolyte spillage occur, immediately wash off with a solution of baking soda and water to prevent damage to vehicle components.

REAR SUSPENSION

Rear Suspension Condition

Visually inspect all suspension components including slider shoes, springs, wheels, etc.

NOTE: During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, will create excessive heat build-up and cause premature slider shoe wear.

Suspension Stopper Strap Condition

Inspect stopper strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to 11 N•m (97 lbf•in).

STEERING AND FRONT SUSPENSION

Visually inspect steering and front suspension for tightness of components (steering arms, control arms and links, tie rods, ball joints, ski bolts, ski legs, etc.). If necessary, contact an authorized SKI-DOO dealer.

Wear and Condition of Skis and Runners

Check the condition of the skis, ski runners and ski runner carbides (if so equipped). If worn, contact an authorized SKI-DOO dealer.



WARNING

Excessively worn skis and/or ski runners will adversely affect snowmobile control.

BODY/FRAME

Vehicle Cleaning and Protection

Remove any dirt or rust.

To clean the entire vehicle, use only flannel cloths or equivalent.

CAUTION: It is necessary to use flannel cloths or equivalent on windshield and hood to avoid damaging further surfaces to clean.

To clean the entire vehicle, including bottom pan and metallic parts use Heavy duty cleaner (P/N 293 110 001) (spray can 400 g) and (P/N 293 110 002) (4 L).

CAUTION: Do not use Heavy duty cleaner on decals or vinyl.

For vinyl and plastic parts use Vinyl & Plastic Cleaner (P/N 413 711 200) (6 x 1 L).

To remove scratches on windshield or hood use BOMBARDIER* Scratch Remover Kit (P/N 861 774 800).

CAUTION: Never clean plastic parts or hood with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

Clean sheaves of both pulleys using Pulley flange cleaner (P/N 413 711 809).

Inspect the hood and repair any damage.

Touch up all metal spots where paint has been scratched off. Spray all metal parts including shock chromed rods with BOMBARDIER LUBE (P/N 293 600 016).

Wax the hood and the painted portion of the frame for better protection.

NOTE: Apply wax on glossy finish only. Protect the vehicle with a cover to prevent dust accumulation during storage.

CAUTION: The snowmobile has to be stored in a cool and dry place and covered with an opaque tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.

Lift rear of vehicle until track is clear of the ground. Install on a wide-base snowmobile mechanical stand with a rear deflector panel.

WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device or have assistance to share lifting stress in order to avoid risk of strain injuries.

NOTE: Do not release track tension.

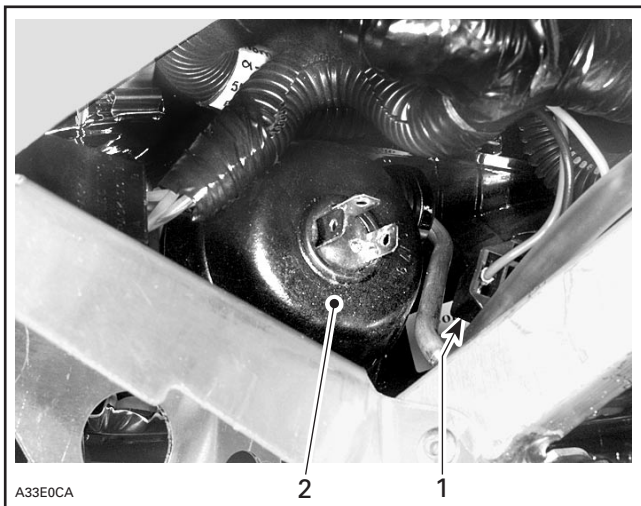
Bulb Replacement

Always check light operation after bulb replacement.

Headlamp

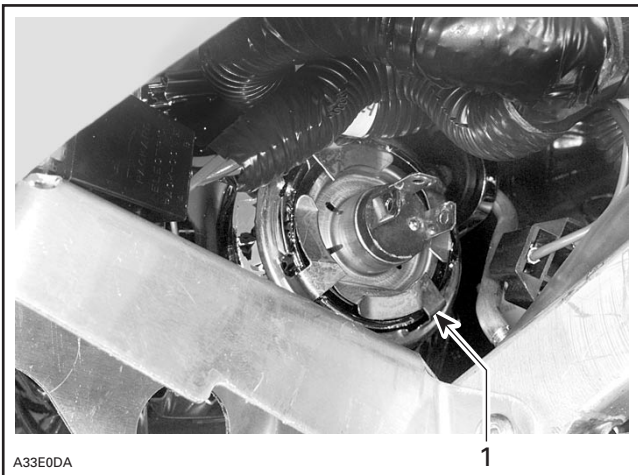
CAUTION: Never touch glass portion of an halogen bulb with bare fingers, it shortens its operating life. If glass is touched, clean it with isopropyl alcohol which will not leave a film on the bulb.

Unplug burnt bulb connector. Remove the rubber boot.



1. Bulb connector
2. Rubber boot

Turn bulb locking ring counterclockwise to remove it. Detach the bulb and replace. Properly reinstall parts.



A33E0DA

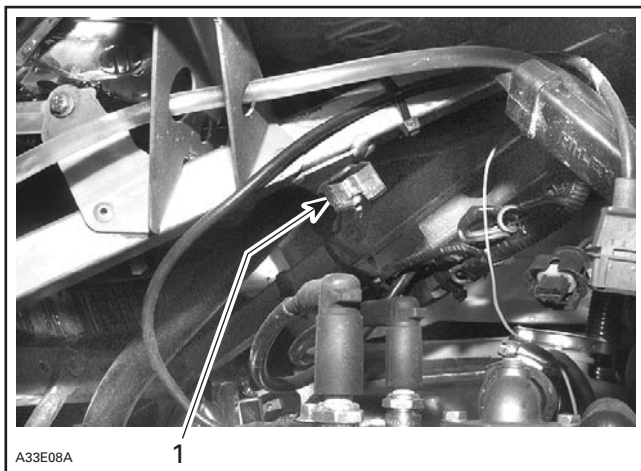
1. *Locking ring*

Taillight

If taillight bulb is burnt, expose the bulb by removing the red plastic lens. To remove, unscrew the 2 lens screws.

Headlamp Beam Aiming

Open left side panel. Turn knob to adjust beam height.



TYPICAL

1. Knob

STORAGE AND PRESEASON PREPARATION

WARNING

Have an authorized SKI-DOO dealer inspect fuel and oil systems integrity as specified in *PERIODIC MAINTENANCE CHART*.

Storage

It is during summer, or when a snowmobile is not in use for more than one month that proper storage is a necessity.

To prepare your snowmobile, refer to an authorized SKI-DOO dealer.

Engine Cooling System

Antifreeze should be replaced for the storage period to prevent antifreeze deterioration.

The antifreeze replacement and a density test should be performed by an authorized SKI-DOO dealer.

CAUTION: Improper antifreeze mixture might allow freezing of the liquid in the cooling system if vehicle is stored in area where freezing point is reached. This would seriously damage the engine. Failure to replace the antifreeze for storage may allow its degradation that could result in poor cooling when engine will be used.

CAUTION: Do not run engine during storage period.

Preseason Preparation

Refer to an authorized SKI-DOO dealer.

WARRANTY

BRP LIMITED WARRANTY NORTH AMERICA: 2006 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2006 Ski-Doo snowmobiles from defects in material or workmanship for the period and under the conditions described below.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP dealer (as hereinafter defined) at the time of delivery of the 2006 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

A GPS receiver may be supplied by BRP as standard equipment on certain 2006 Ski-Doo snowmobiles. The GPS receiver is covered by the limited warranty issued by the GPS receiver's manufacturer and is not covered by this BRP limited warranty.

Use of the product for racing or any other competitive activity, at any point, even by a previous owner, will render this warranty null and void.

2) WARRANTY COVERAGE PERIOD

This warranty will be in effect from the date of delivery to the first retail consumer or the date the product is first put into use, whichever occurs first and for a period of:

TWELVE (12) CONSECUTIVE MONTHS, for private or commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire December 1st of the following year.

The emission-related components included in the chart below, that are installed on EPA certified snowmobiles (see list below) registered in the USA are covered for thirty (30) consecutive months or 2500 miles (4000 km) of engine use whichever occurs first. If the 2500 miles (4000 km) are reached during the regular warranty coverage period, the emission-related components are still covered by BRP's standard warranty until the end of regular coverage period.

The EPA certified snowmobiles are those equipped with: 1000 SDI.

EMISSION-RELATED COMPONENTS	1000 SDI
Throttle Position Sensor (TPS)	X
Air Temperature Sensor (ATS)	X
Air Pressure Sensor (APS)	X
Fuel Pressure Regulator	X
Fuel Injectors	X
Engine Management System (EMS)	X
Engine Temperature Sensor	X
Knock Sensor	X

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

3) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on 2006 Ski-Doo snowmobile purchased as new and unused by its first owner from a BRP dealer authorized to distribute Ski-Doo products in the country in which the sale occurred ("BRP dealer"), and then only after the BRP specified predelivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by an authorized BRP dealer. Moreover, this warranty coverage is only available if the Ski-Doo snowmobile is purchased in the country in which the purchaser resides. BRP will not honor this limited warranty to any private use owner or commercial use owner if the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

4) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must notify a servicing BRP dealer within two (2) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized BRP dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

5) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labor, at any authorized BRP dealer during the warranty coverage period.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

6) EXCLUSIONS

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BRP or resulting from repairs done by a person that is not an authorized servicing BRP dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Snow or water ingestion;

- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

7) LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, any BRP dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP.

BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

8) TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BRP is notified of such transfer of ownership in the following way:

- a) The former owner contacts BRP (at the phone number provided below) or an authorized BRP dealer and gives the coordinates of the new owner; or
- b) BRP or an authorized BRP dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

9) CONSUMER ASSISTANCE

- a) In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b) If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

In Canada:

**BOMBARDIER
RECREATIONAL PRODUCTS
INC.**
SKI-DOO
CONSUMER SERVICES GROUP
VALCOURT QC JOE 2L0
Tel: (819) 566-3366

In USA:

BPR US Inc.
SKI-DOO
CONSUMER SERVICES GROUP
7575 BOMBARDIER COURT
WAUSAU WI 54401
Tel: (715) 848-4957

* In the USA, products are distributed and serviced by BRP US Inc.

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BRP INTERNATIONAL LIMITED WARRANTY: 2006 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP") warrants its 2006 Ski-Doo snowmobiles from defects in material or workmanship for the period and under the conditions described below.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer (as hereinafter defined) at the time of delivery of the 2006 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

Use of the product for racing or any other competitive activity, at any point, even by a previous owner, will render this warranty null and void.

2) WARRANTY COVERAGE PERIOD

This warranty will be in effect from the date of delivery to the first retail consumer or the date the product is first put into use, whichever occurs first and for a period of:

TWELVE (12) CONSECUTIVE MONTHS, for private or commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire December 1st of the following year.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

3) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on 2006 Ski-Doo snowmobile purchased as new and unused by its first owner from a BRP distributor/dealer authorized to distribute Ski-Doo products in the country in which the sale occurred ("BRP distributor/dealer"), and then only after the BRP specified predelivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by an authorized BRP distributor/dealer. Moreover, this warranty coverage is only available if the Ski-doo snowmobile is purchased in the country in which the purchaser resides. BRP will not honor this limited warranty to any private use owner or commercial use owner if the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

4) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must notify a servicing BRP distributor/dealer within two (2) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized BRP distributor/dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

5) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labor, at any authorized BRP distributor/dealer during the warranty coverage period.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

6) EXCLUSIONS

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BRP or resulting from repairs done by a person that is not an authorized servicing BRP distributor/dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the *OPERATOR'S GUIDE*);
- Snow or water ingestion;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

7) LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, any BRP distributor/dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP.

BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

8) TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized BRP distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

9) CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the dealership level.

If further assistance is required, the distributor's service department should be contacted in order to resolve the matter.

If the matter still remains unresolved then contact BRP by writing to us at the address listed below.

BOMBARDIER
RECREATIONAL PRODUCTS INC.
SKI-DOO
CONSUMER SERVICES GROUP
VALCOURT QC J0E 2L0
TEL: (819) 566-3366

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PRIVACY OBLIGATIONS/DISCLAIMER

We wish to inform you that your coordinates will be used for safety and warranty purposes. Sometimes, we also use the coordinates of our clients to inform them about our products and to present them offers. Should you prefer not to receive information on our products, services and offers, please let us know by writing to the address below.

Also note that, from time to time, carefully selected and trustworthy organizations may be permitted to use the coordinates of our clients to promote quality products and services. If you prefer not to have your name and address released, please let us know by writing to the address below:

Bombardier Recreational Products Inc.

Warranty Department
75, J.A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Canada

Fax Number: (819) 566-3590

CHANGE OF ADDRESS OR OWNERSHIP

If your address has changed or if you have sold or given your vehicle to anyone, be sure to fill out and mail the card provided on next page.

Such notification is necessary for your safety or the safety of any subsequent owner, even after expiration of the original warranty, since BRP will be in a position to contact you if correction to your snowmobile becomes necessary.

NOTICE TO ALL NEW OWNERS:

Make sure to mail the change of *OWNERSHIP CARD* as you are entitled to the unexpired portion of the warranty.

STOLEN UNITS

If the event that your snowmobile is stolen, you should notify your area distributor's warranty department of such.

Please provide your name, address, phone number, vehicle serial number and date of theft.

BRP will provide a list of stolen units to all authorized SKI-DOO dealers on a monthly basis to aid in recovery of such units to their owners.

AFFIX
PROPER
POSTAGE

**Bombardier
Recreational Products Inc.**

WARRANTY DEPARTMENT

75, J.A. Bombardier

Sherbrooke, QC

Canada

J1L 1W3

AFFIX
PROPER
POSTAGE

**Bombardier
Recreational Products Inc.**

WARRANTY DEPARTMENT

75, J.A. Bombardier

Sherbrooke, QC

Canada

J1L 1W3



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GUIDE DU CONDUCTEUR, SÉRIE RT / ANGLAIS

FAIT AU / MADE IN CANADA

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